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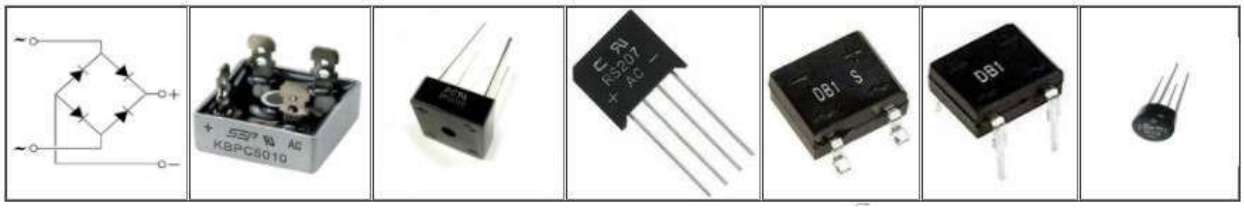

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диодный мост db107g

диодный мост db107 datasheet

Single Phase Silicon Bridge Rectifier

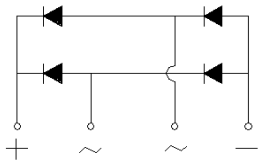
V_{RRM} = 600 V - 1000 V

I_O = 50 A

Features

- High efficiency
- Silicon junction
- Metal case
- Types from 600 V to 1000 V V_{RRM}
- Not ESD Sensitive

KBPC-T/W Package



Mechanical Data

Case: Mounted in the bridge encapsulation

Mounting: Hole for #10 screw

Polarity: Marked on case

Maximum ratings at Tc = 25 °C, unless otherwise specified (KBPCXXXXT uses KBPC-T package while KBPCXXXXW uses KBPC-W package)

Parameter	Symbol	Conditions	KBPC5006T/W	KBPC5008T/W	KBPC5010T/W	Unit
Repetitive peak reverse voltage	V_{RRM}		600	800	1000	V
RMS reverse voltage	V_{RMS}		420	560	700	V
DC blocking voltage	V_{DC}		600	800	1000	V
Operating temperature	T_j		-55 to 150	-55 to 150	-55 to 150	°C
Storage temperature	T_{stg}		-55 to 150	-55 to 150	-55 to 150	°C

Electrical characteristics at Tc = 25 °C, unless otherwise specified

Single phase, half sine wave, 60 Hz, resistive or inductive load

For capacitive load derate current by 20%

Parameter	Symbol	Conditions	KBPC5006T/W	KBPC5008T/W	KBPC5010T/W	Unit
Maximum average forward rectified current	I_O	T_c = 40 °C	50	50	50	A
Peak forward surge current	I_{FSM}	8.3 ms half sine-wave	400	400	400	A
Maximum instantaneous forward voltage per leg	V_F	I_F = 25.0 A	1.1	1.1	1.1	V
Maximum DC reverse current at rated DC blocking voltage per leg	I_R	T_c = 25 °C T_c = 100 °C	5 500	5 500	5 500	µA
Thermal characteristics						
Typical thermal resistance per leg [1]	$R_{\Theta JC}$		2.5	2.5	2.5	°C/W

[1] - Thermal resistance from Junction to Ambient on P.C. board mounting

FIG.1 - TYPICAL FORWARD CORRENT DERATING CURVE

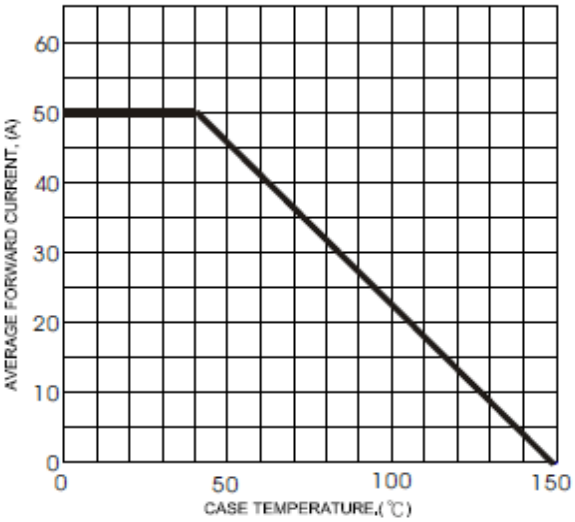


FIG.2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

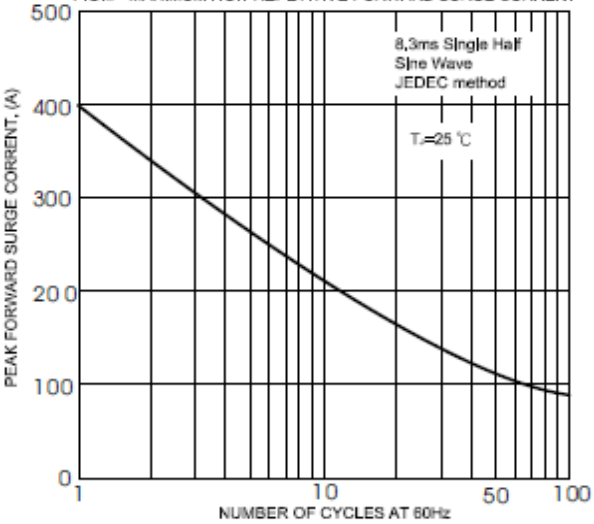


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

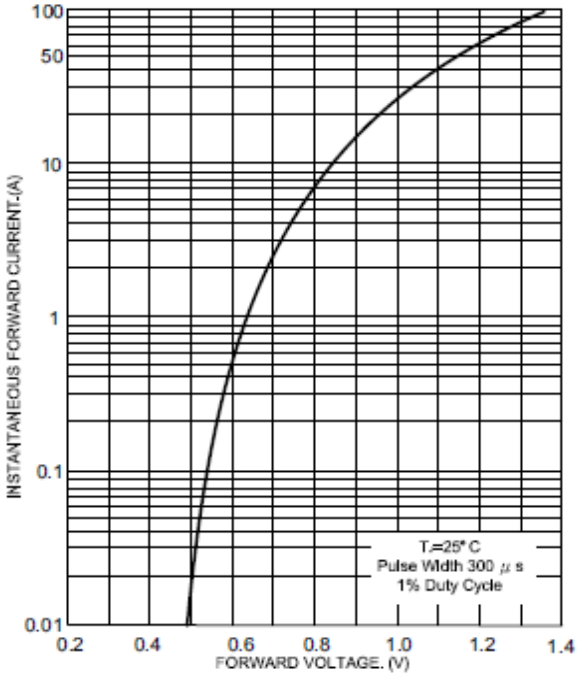
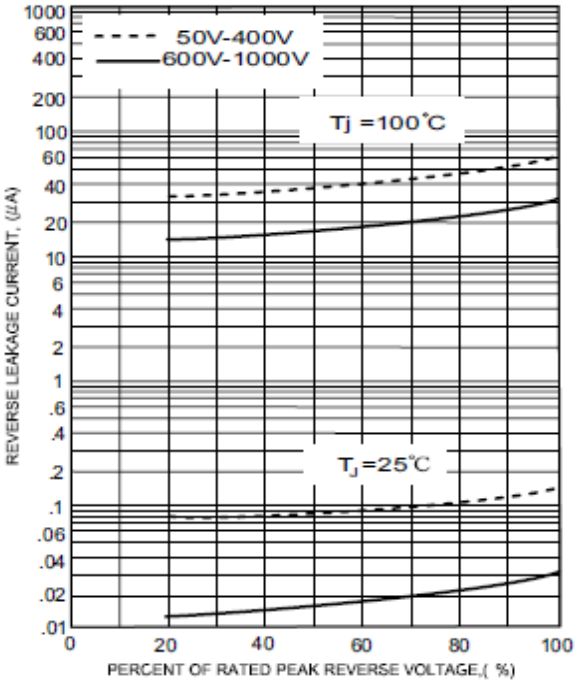
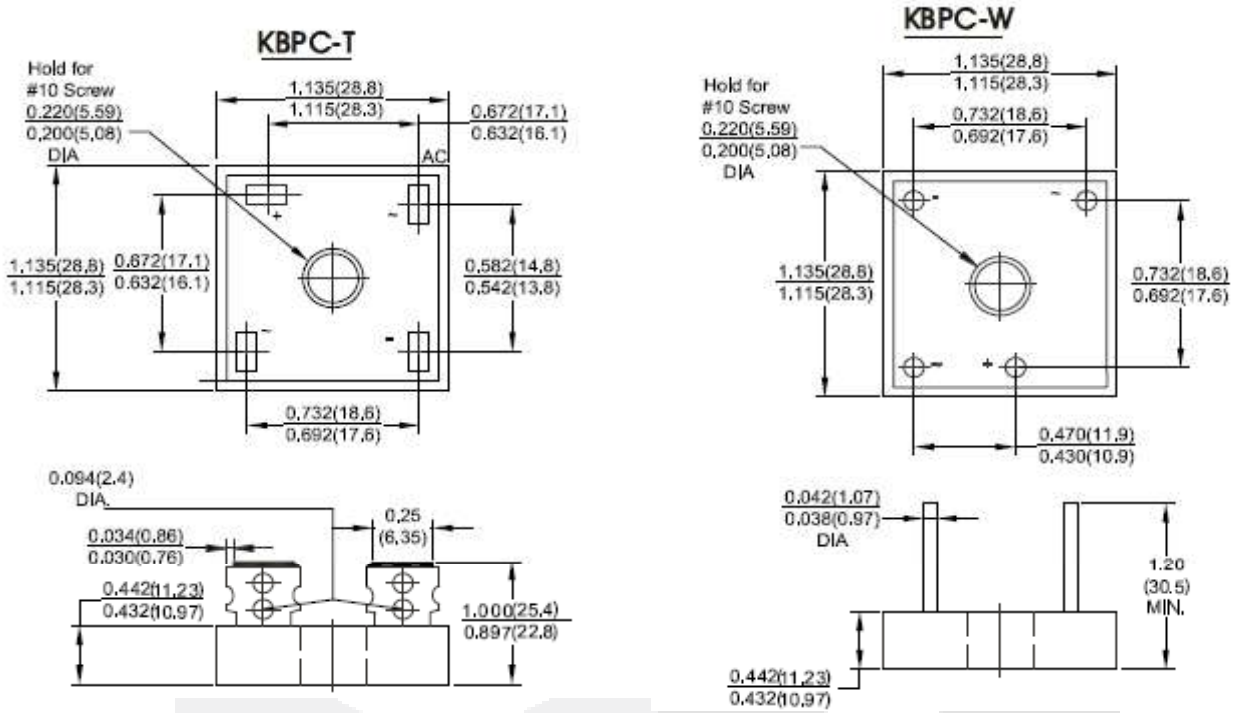


FIG.4- TYPICAL REVERSE CHARACTERISTICS

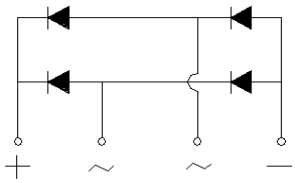


Package dimensions and terminal configuration

Product is marked with part number and terminal configuration.



Dimensions in inches and (millimeters)



SOLID STATE INC.
46 FARRAND STREET
BLOOMFIELD, NEW JERSEY 07003 www.solidstateinc.com

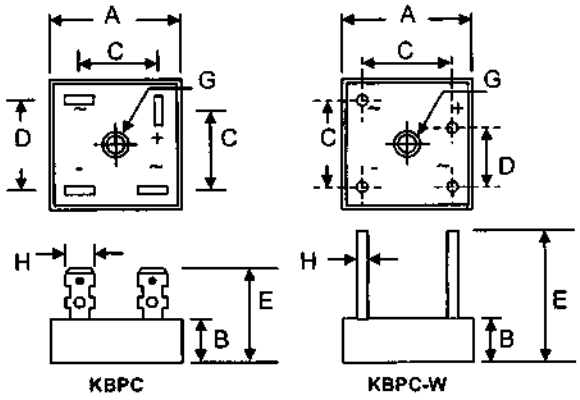
KBPC50 SERIES

RoHS Pb

50A HIGH CURRENT SINGLE-PHASE BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 2500V



Dim	KBPC Min	KBPC Max	KBPC-W Min	KBPC-W Max
A	27.94	28.96	27.94	28.96
B	10.97	11.23	10.97	11.23
C	15.50	17.60	17.10	19.10
D	17.50	18.50	10.90	11.90
E	22.86	25.40	30.50	—
G	Hole for #10 screw, 5.08Ø Nominal			
H	6.35 Typical		0.97Ø	1.07Ø
All Dimension in mm				

Mechanical Data

- Case: KBPC (Metal Case with Faston Lugs) or KBPC-W (Metal Case with Wire Leads)
- Terminals: Plated Faston Lugs or Wire Leads, Add "W" Suffix to Indicate Wire Leads
- Polarity: As Marked on Case
- Mounting: Through Hole with #10 Screw
- Mounting Torque: 23 cm-kg (20 in-lbs) Max.
- Weight: 30 grams (KBPC); 28 grams (KBPC-W)
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "LF" Suffix to Date Code**

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC50 05	01	02	04	06	08	10	12	14	16	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	1200	1400	1600	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	840	980	1120	V
Average Rectified Output Current @T_A = 60°C	I_O	50										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	450										A
Forward Voltage per leg @I_F = 25A	V_{FM}	1.2										V
Peak Reverse Current @T_C = 25°C At Rated DC Blocking Voltage @T_C = 125°C	I_{RM}	10 1.0										µA mA
I^2t Rating for Fusing (t < 8.3ms)	I^2t	800										A^2s
Typical Junction Capacitance (Note 1)	C_j	300										pF
Typical Thermal Resistance per leg (Note 2)	$R_{\theta JC}$	1.6										°C/W
RMS Isolation Voltage from Case to Leads	V_{ISO}	2500										V
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150										°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.
2. Thermal resistance junction to case, mounted on heatsink.

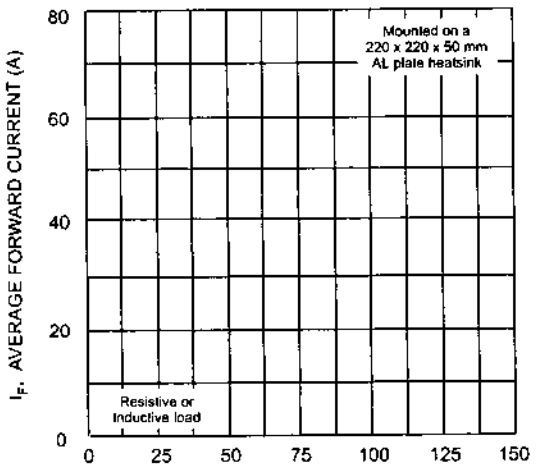


Fig. 1 Forward. Current Derating Curve

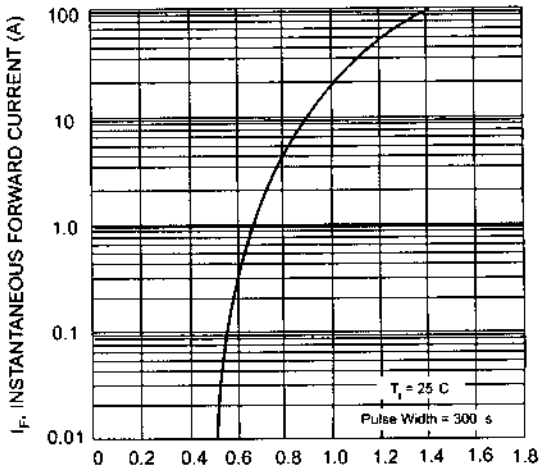


Fig. 2 Typical Forward Characteristics (per element)

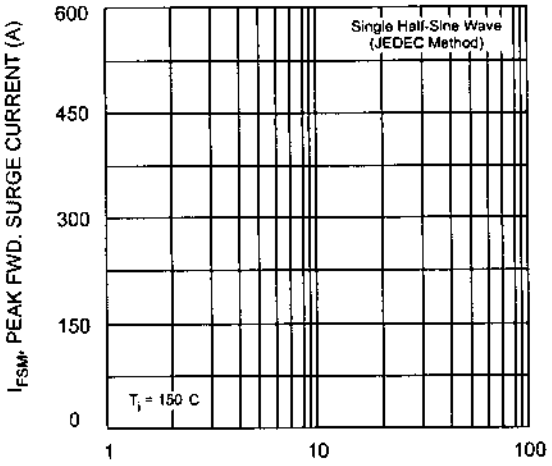


Fig. 3 Max Non-Repetitive Surge Current

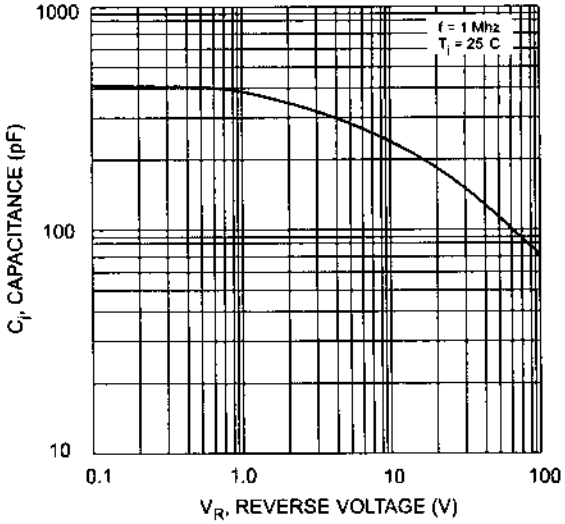


Fig. 4 Typical Junction Capacitance (per element)

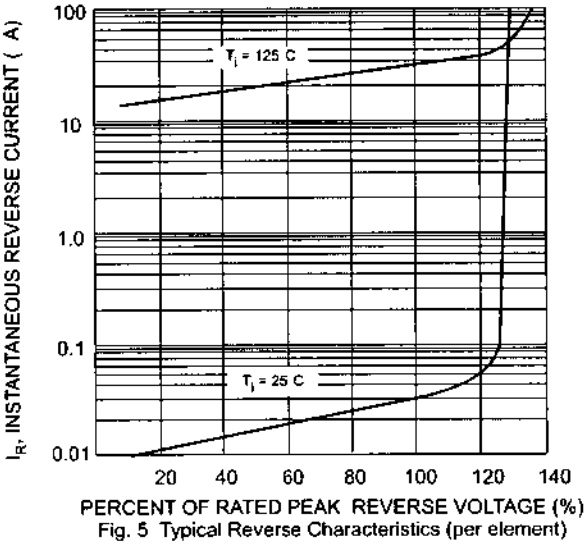
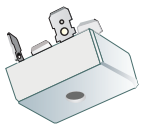


Fig. 5 Typical Reverse Characteristics (per element)

KBPC10005-G Thru. KBPC5010-G Series

Reverse Voltage: 50 to 1000V
Forward Current: 10/15/25/35/50A
RoHS Device



Features

-Surge overload-240~500 Amperes peak

-Low forward voltage drop

-Electrically isolated base -2000 Volts

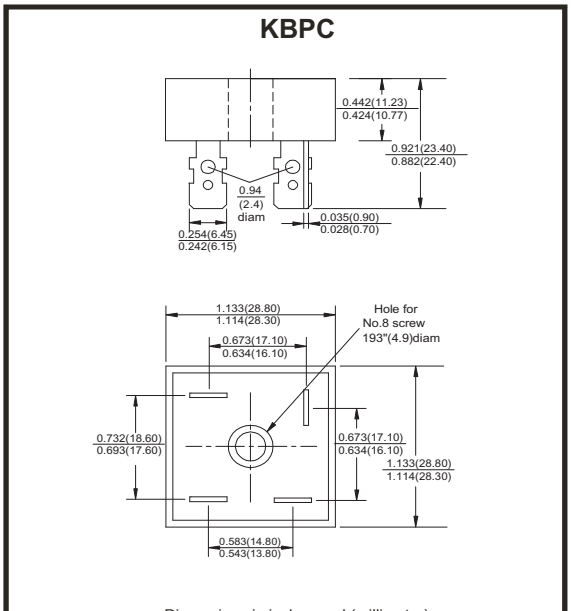
-Materials used carries U/L recognition

Mechanical Data

-Polarit:As marked on Body

-Mounting position:Any

-Weight: 28.82grams



Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave ,60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Parameter	Symbol	KBPC-G 10005	KBPC-G 1001	KBPC-G 1002	KBPC-G 1004	KBPC-G 1006	KBPC-G 1008	KBPC-G 1010	Unit
		15005	1501	1502	1504	1506	1508	1510	V
		25005	2501	2502	2504	2506	2508	2510	V
		35005	3501	3502	3504	3506	3508	3510	V
		50005	5001	5002	5004	5006	5008	5010	V
Maximum Reverse Peak Repetitive Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V

Parameter	Symbol	KBPC10	KBPC15	KBPC25	KBPC35	KBPC50	Unit
Maximum Average Forward Rectified Output Current @Tc=55°C	$I_{(AV)}$	10	15	25	35	50	A
Peak Forward Surage Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load	I_{FSM}	240	300	400	400	500	A
Maximum Forward Voltage Drop Per Element at 5.0/7.5/12.5/17.5/25.0A Peak	V_F	1.1					V
Maximum Reverse Current at rate DC Blocking Voltage Per Element @ TJ=25°C	I_R	10.0					μA
Operating Temperature Range	T_J	-55 to +125					°C
Storage Temperature Range	T_{STG}	-55 to +150					°C

Rating and Characteristics Curves (KBPC10005-G Thru. KBPC5010-G Series)

Fig.1 - Maximum Forward Surge Current

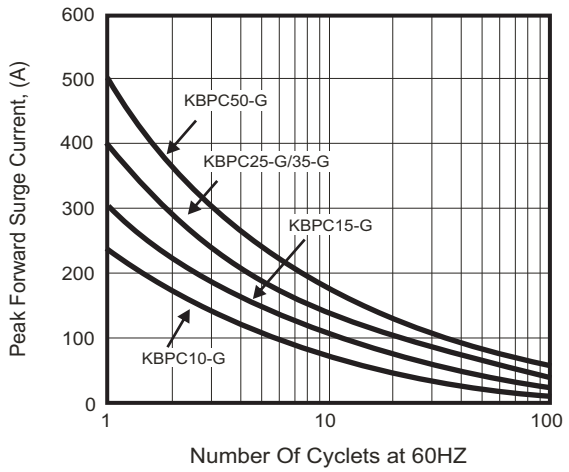


Fig.2 - Derating Curve Output Rectified Current

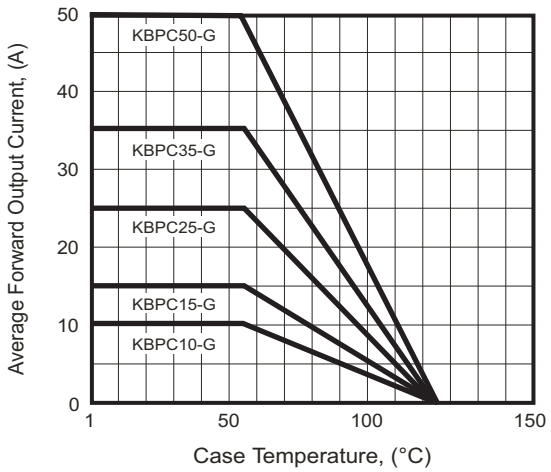


Fig.3 - Typical Forward Characteristics

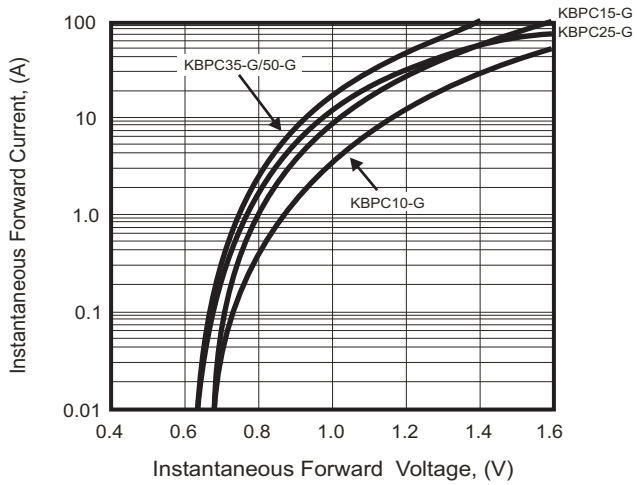
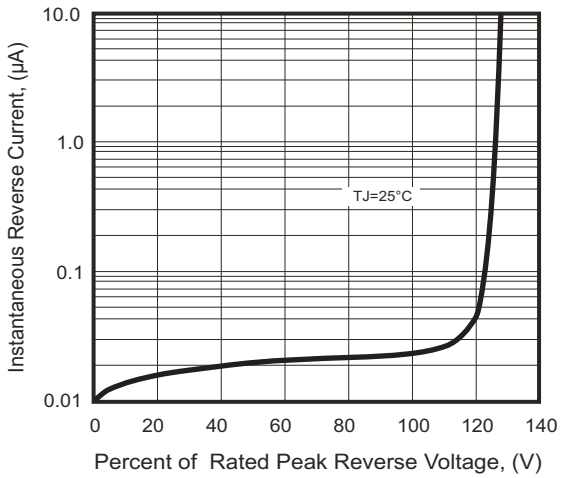


Fig.4 - Typical Forward Characteristics



Marking Code

Part Number	Marking code
KBPC10005-G	KBPC10005
KBPC15005-G	KBPC15005
KBPC25005-G	KBPC25005
KBPC35005-G	KBPC35005
KBPC50005-G	KBPC50005
KBPC1001-G	KBPC1001
KBPC1501-G	KBPC1501
KBPC2501-G	KBPC2501
KBPC3501-G	KBPC3501
KBPC5001-G	KBPC5001
KBPC1002-G	KBPC1002
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KBPC1010-G	KBPC1010
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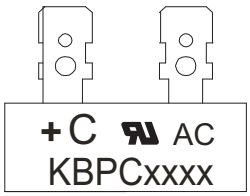
KBPC3510-G	KBPC3510
KBPC5010-G	KBPC5010



XXXXX / XXXX = Product type marking code

C = Compchip Logo

Standard Packaging

Case Type	BULK PACK	
	BOX (pcs)	CARTON (pcs)
KBPC	50	500

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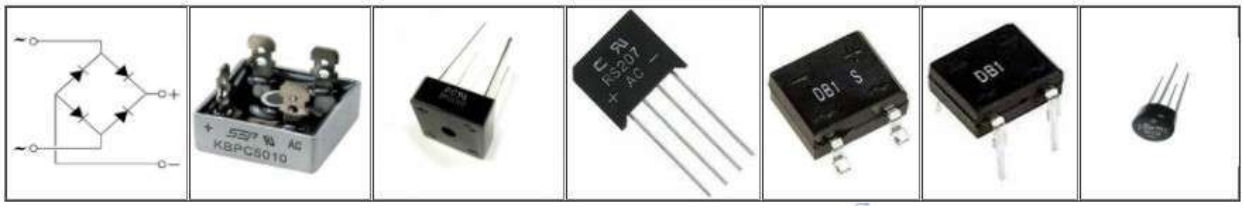
каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото
QR код



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диодный мост db107 технические характеристики

диодный мост db107g

диодный мост db107 datasheet

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KBPC50005 THRU KBPC5010

50 Amp Single Phase Bridge Rectifier 50 to 1000 Volts

Features

- Mounting Hole For #8 Screw
- High Conductivity Metal Case
- Any Mounting Position
- Surge Rating Of 400 Amps

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

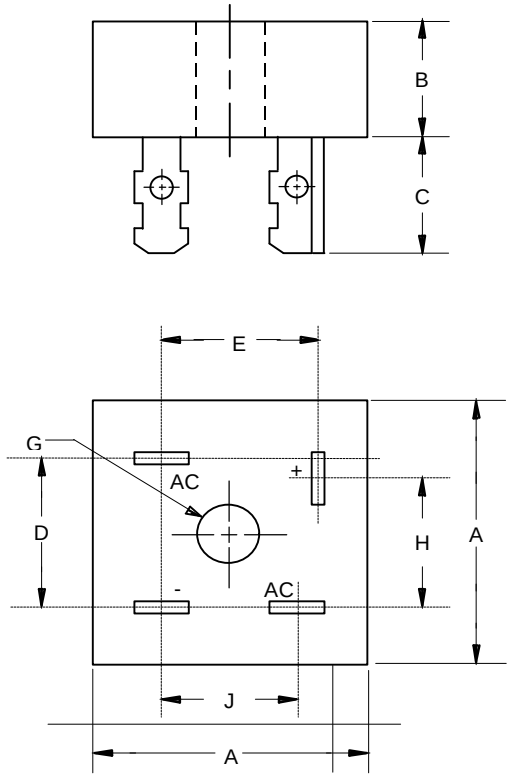
Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
KBPC50005		50V	35V	50V
KBPC5001		100V	70V	100V
KBPC5002		200V	140V	200V
KBPC5004		400V	280V	400V
KBPC5006		600V	420V	600V
KBPC5008		800V	560V	800V
KBPC5010		1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	50.0A	T_C = 55°C
Peak Forward Surge Current	I_{FSM}	400A	8.3ms, half sine
Maximum Forward Voltage Drop Per Element	V_F	1.2V	I_{FM} = 25A per element; T_J = 25°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	10µA 1mA	T_J = 25°C T_J = 125°C

*Pulse test: Pulse width 300 µsec, Duty cycle 1%

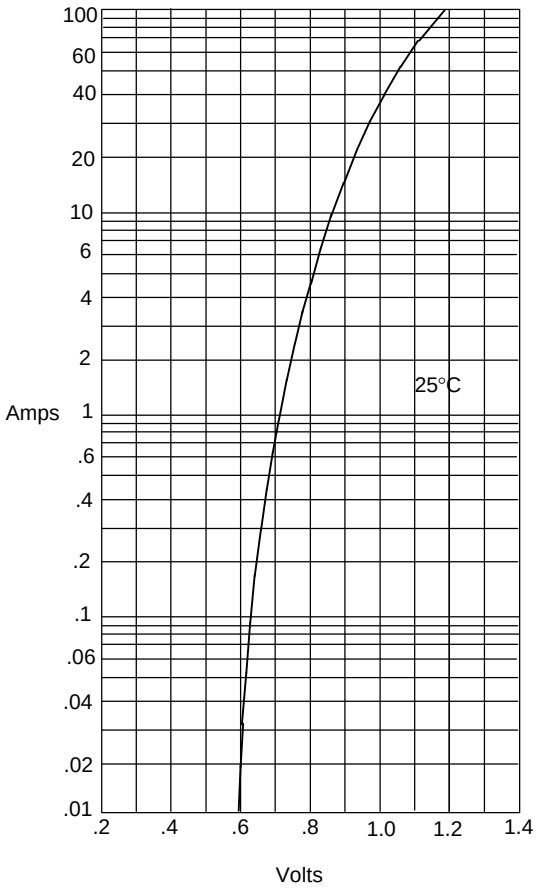
KBPC35



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	1.115	1.135	28.33	28.83	
B	.427	.447	10.85	11.35	
C	.428	.468	10.87	11.89	
D	.688	.730	17.48	18.50	
E	.618	.658	15.70	16.71	
G	.193	---	4.90	---	∅
H	.618	.658	15.70	16.71	
J	.530	.570	13.46	14.48	

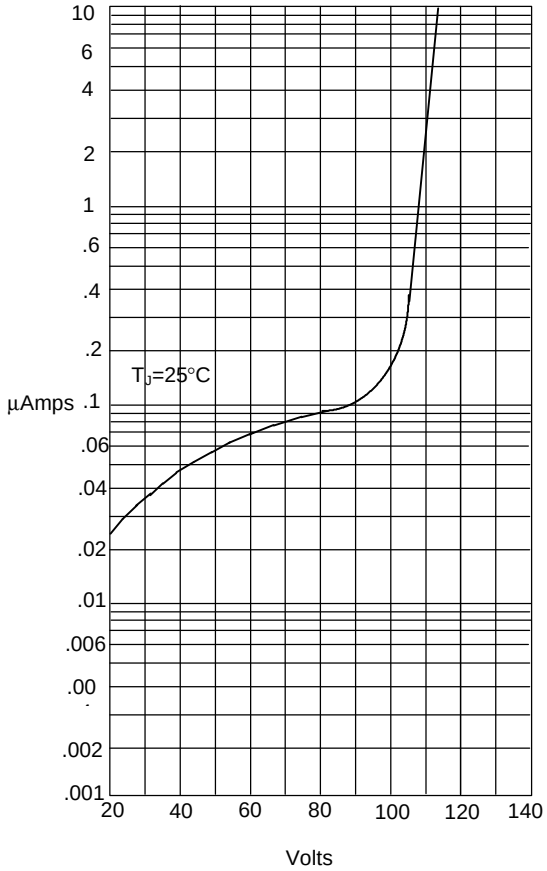
KBPC50005 thru KBPC5010

Figure 1
Typical Forward Characteristics



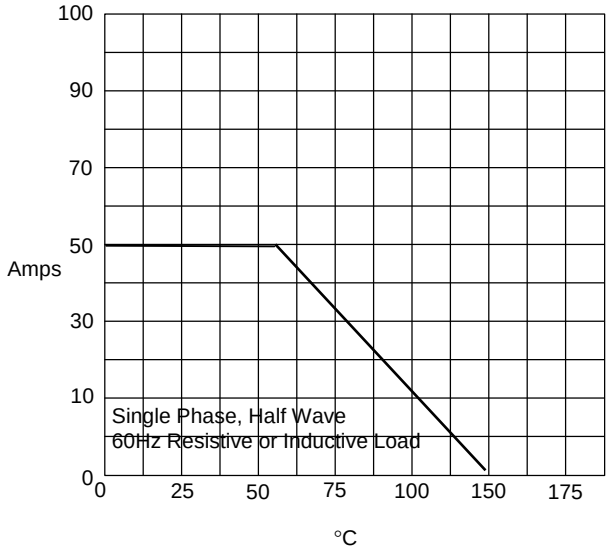
Instantaneous Forward Current - Amperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Typical Reverse Characteristics



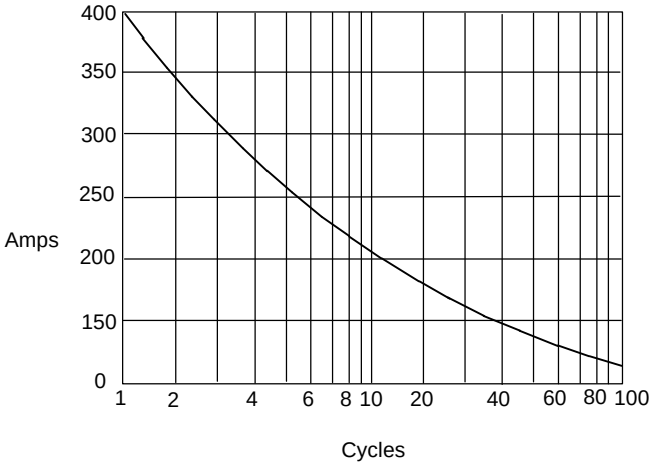
Instantaneous Reverse Leakage Current - MicroAmperes *versus*
Percent Of Rated Peak Reverse Voltage - Volts

Figure 3
Forward Derating Curve



Average Forward Rectified Current - Amperes *versus*
Case Temperature -°C

Figure 4
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

KBPC5000 - KBPC5010

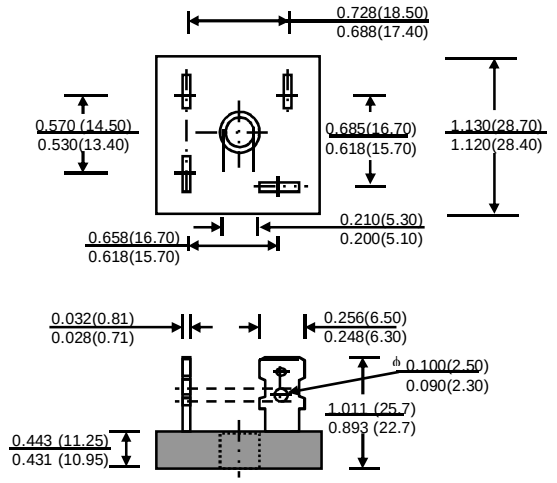
SILICON BRIDGE RECTIFIERS

PRV : 50 - 1000 Volts
Io : 50 Amperes

FEATURES :
* High case dielectric strength
* High surge current capability
* High reliability
* High efficiency
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

MECHANICAL DATA :
* Case : Metal Case
* Epoxy : UL94V-0 rate flame retardant
* Terminals : plated .25" (6.35 mm). Faston
* Polarity : Polarity symbols marked on case
* Mounting position : Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency.
* Weight : 17.1 grams

BR50M



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

RATING	SYMBOL	KBPC 5000	KBPC 5001	KBPC 5002	KBPC 5004	KBPC 5006	KBPC 5008	KBPC 5010	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current Tc = 55°C	$I_{F(AV)}$	50							A
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	400							A
Current Squared Time at t < 8.3 ms.	I^2t	660							A^2S
Maximum Forward Voltage per Diode at I_F=25 A	V_F	1.1							V
Maximum DC Reverse Current Ta = 25 °C	I_R	10							µA
at Rated DC Blocking Voltage Ta = 100 °C	$I_{R(H)}$	500							µA
Typical Thermal Resistance (Note 1)	$R\theta JC$	2.0							°C/W
Operating Junction Temperature Range	T_J	- 40 to + 150							°C
Storage Temperature Range	T_{STG}	- 40 to + 150							°C

Note :

(1) Thermal resistance from Junction to Case with units mounted on a 9"x5"x4.6" (22.9x12.7x11.7 cm) Al-Finned Heatsink.

RATING AND CHARACTERISTIC CURVES (KBPC5000 - KBPC5010)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

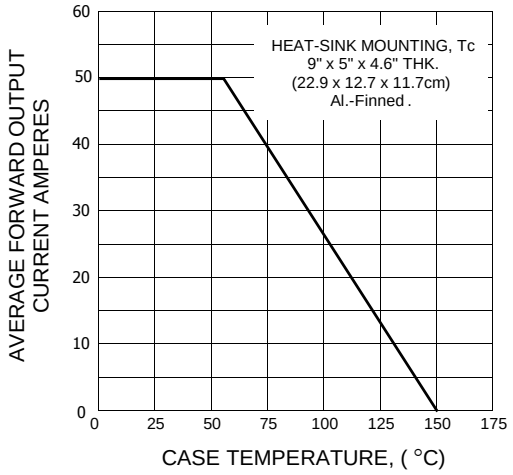


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

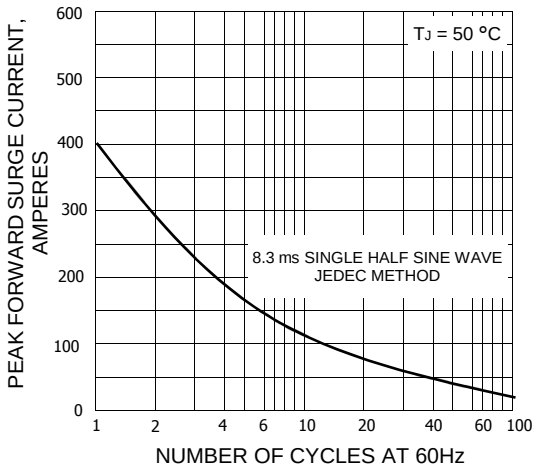


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

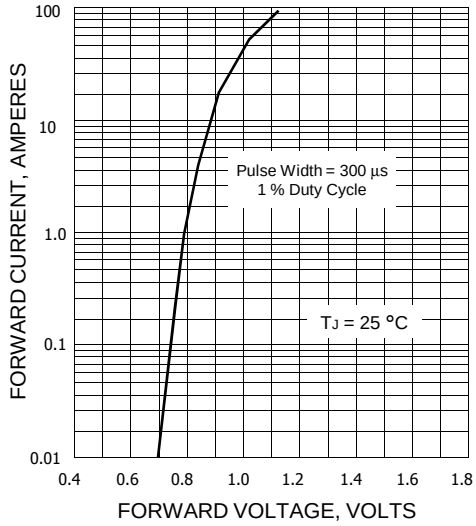
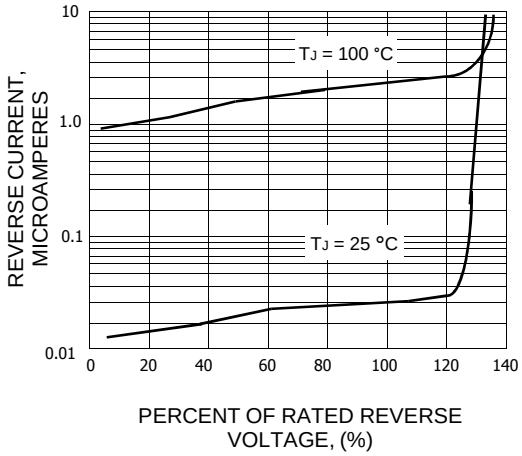


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER DIODE



KBPC35005/W - KBPC3510/W

35A BRIDGE RECTIFIER

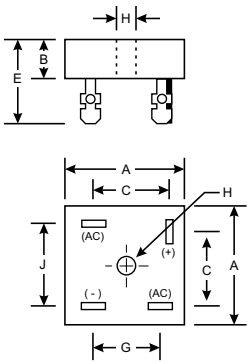
Features

- Diffused Junction
- Low Reverse Leakage Current
- Low Power Loss, High Efficiency
- Surge Overload Rating to 400A Peak
- Electrically Isolated Metal Case for Maximum Heat Dissipation
- Case to Terminal Isolation Voltage 1500V
- UL Listed: Recognized Component Index, File Number E95060

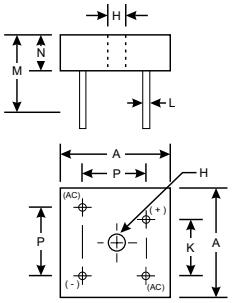
Mechanical Data

- Case: High Conductivity Metal
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Case
- Mounting: Through Hole for #10 Screw
- Mounting Torque: 8.0 Inch-pounds Maximum
- Weight: KBPC 31.6 grams (approx)
- KBPC-W 28.5 grams (approx)
- Mounting Position: Any
- Marking: Type Number

KBPC



KBPC-W



KBPC / KBPC-W		
Dim	**Min**	**Max**
A	28.40	28.70
B	10.97	11.23
C	15.50	17.60
E	22.86	25.40
G	13.30	15.30
H	Hole for #10 screw	
	4.85∅	5.59∅
J	17.10	19.10
K	10.40	12.40
L	0.97∅	1.07∅
M	30.50	—
N	10.97	11.23
P	17.10	19.10
All Dimensions in mm		

"W" Suffix Designates Wire Leads
No Suffix Designates Fast-on Terminals

Maximum Ratings and Electrical Characteristics

@ T_A = 25°C unless otherwise specified

Single phase, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	KBPC35 005/W	KBPC35 01/W	KBPC35 02/W	KBPC35 04/W	KBPC35 06/W	KBPC35 08/W	KBPC35 10/W	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current @ T_C = 55°C	I_O	35							A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							A
Forward Voltage (per element) @ I_F = 17.5A	V_{FM}	1.2							V
Peak Reverse Current @ T_C = 25°C at Rated DC Blocking Voltage @ T_C = 125°C	I_{RM}	10 1.0							μA mA
I^2t Rating for Fusing (t < 8.3ms) (Note 3)	I^2t	664							A^2s
Typical Junction Capacitance (Note 2)	C_j	300							pF
Typical Thermal Resistance Junction to Case	$R_{\theta JC}$	2.7							K/W
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150							°C

Notes: 1. Thermal resistance junction to case mounted on heatsink.
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
3. Measured at non-repetitive, for t > 1.0ms and < 8.3ms.

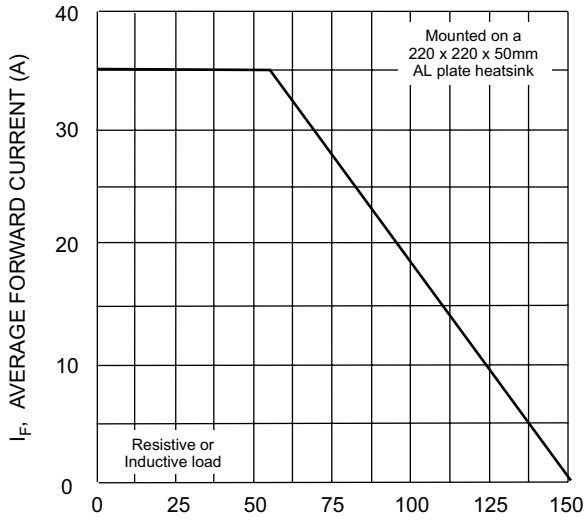


Fig. 1 Forward. Current Derating Curve.

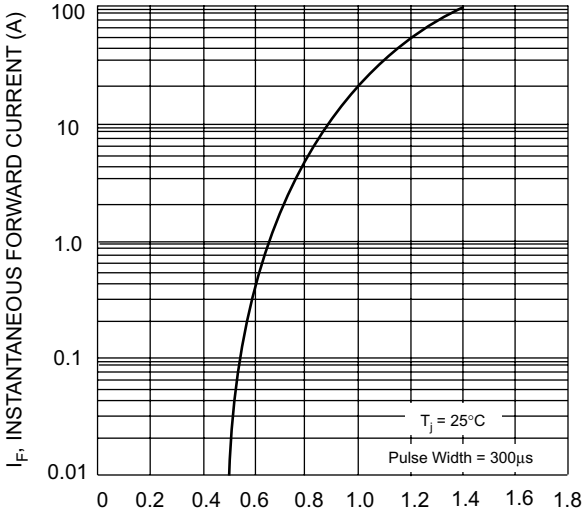


Fig. 2 Typical Forward Characteristics (per element)

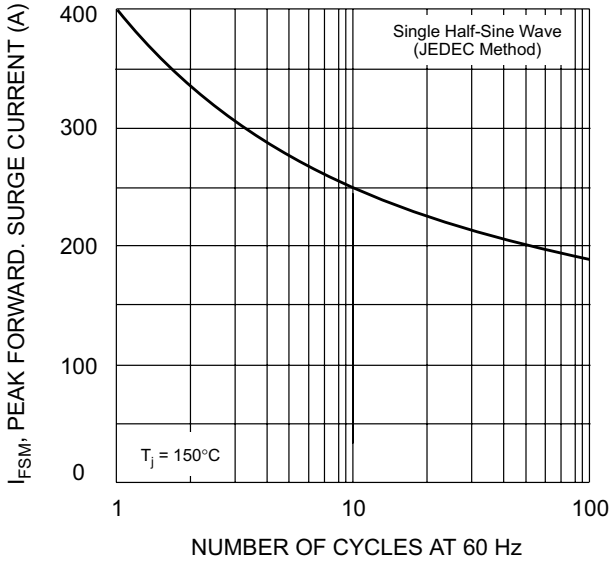


Fig. 3 Maximum Non-Repetitive Surge Current

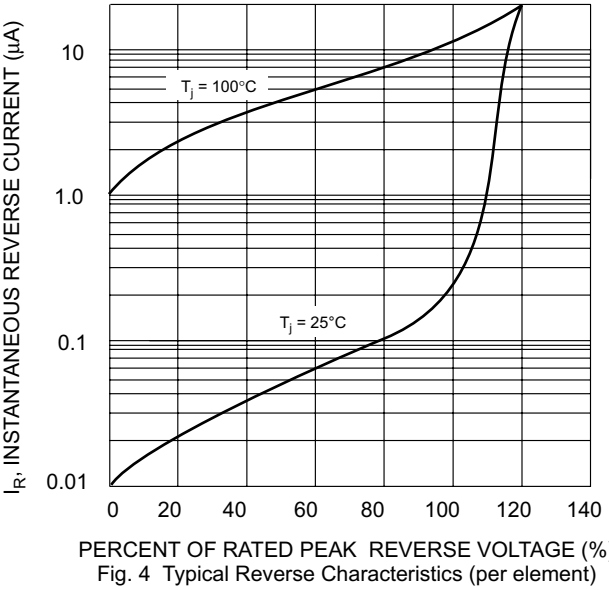


Fig. 4 Typical Reverse Characteristics (per element)

KBPC35005-KBPC3510

SINGLE-PHASE SILICON BRIDGE RECTIFIER

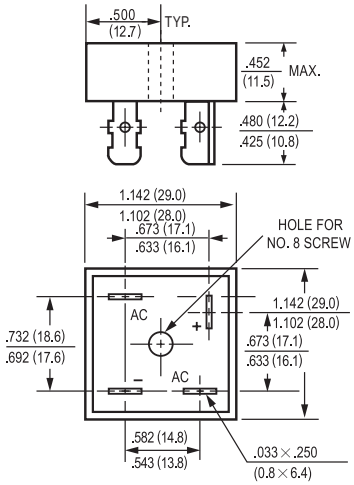
VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 35 Amperes

MECHANICAL DATA

* Case: Metal, electrically isolated
* Epoxy: UL 94V-0 rate flame retardant
* Terminals: Plated .25"(6.35mm) Faston lugs, solderable per MIL-STD-202E, Method 208 guaranteed
* Polarity: As marked
* Mounting position: Any
* Weight: 30 grams

FEATURES

* Metal case for Maximum Heat Dissipation
* Surge overload ratings-400 Amperes
* Low forward voltage drop



Dimensions in inches and (millimeters)

MB-25

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

PARAMETER		SYMBOL	KBPC35005 MB3505	KBPC3501 MB351	KBPC3502 MB352	KBPC3504 MB354	KBPC3506 MB356	KBPC3508 MB358	KBPC3510 MB3510	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_C = 55℃		I_O	25							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave Superimposed on rated load (JEDEC Method)		I_{FSM}	400							Amps
Maximum Forward Voltage Drop per element at 17.5A DC		V_F	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T_A = 25℃	I_R	10							uAmps
	@T_A = 100℃		500							
I^2t Rating for Fusing (t < 8.3ms)		I^2t	664							A^2Sec
Typical Junction Capacitance (Note 1)		C_J	300							pF
Typical Thermal Resistance (Note 2)		$R\theta_{Jc}$	2.2							℃/W
Operating and Storage Temperature Range		T_J, T_{STG}	-55 to +150							℃

Notes: 1.Measured at 1 MHz and applied reverse voltage of 4.0 volts
2.Thermal Resistance from Junction to Case per legs.

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KBPC35005-KBPC3510

RATING AND CHARACTERISTIC CURVES

FIG. 1 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

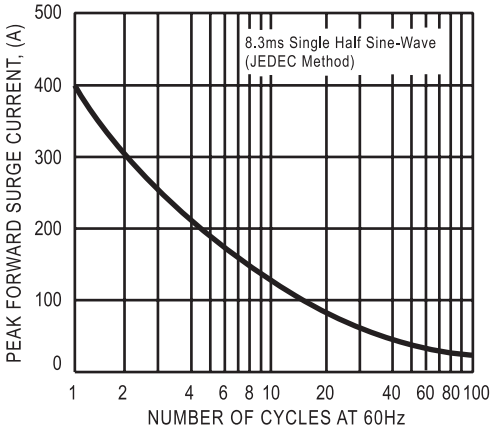


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

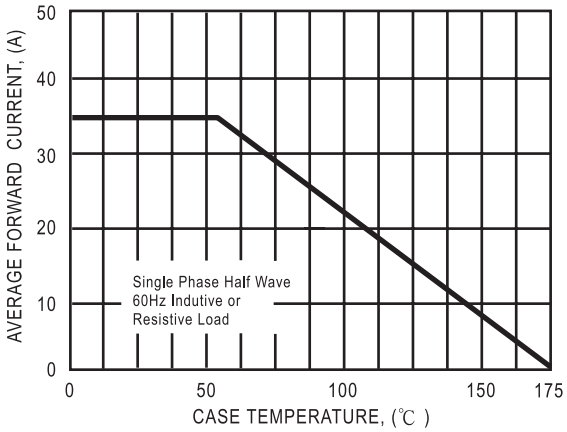


FIG. 3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

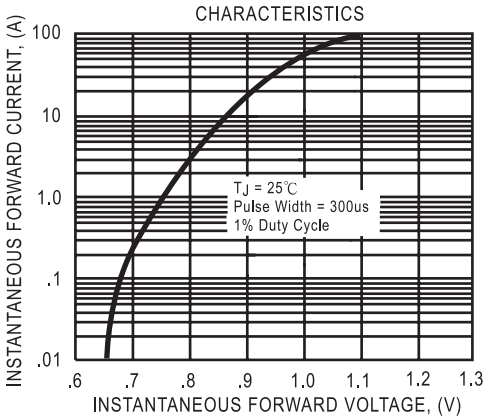
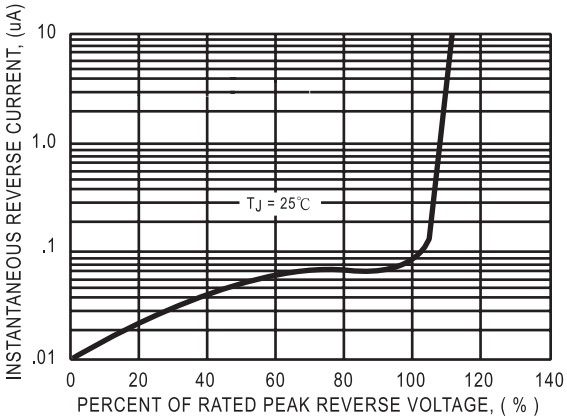


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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CHENYI ELECTRONICS

KBPC35005 THRU KBPC3510

SINGLE PHASE SILICON BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:35A

FEATURES

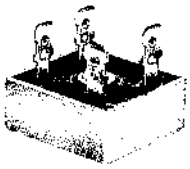
Surge overload rating: 400A peak

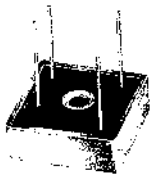
High case dielectric strength

1/4" Universal faston terminal

and ∅40ml lead--wire available

KBPC





MECHANICAL DATA

. **Polarity**: Polarity symbol marked on body

. **Mounting** : Hole thru #8 screw

. **Case**: metal or plastic

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25℃ , unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	KBPC 35005	KBPC 3501	KBPC 3502	KBPC 3504	KBPC 3506	KBPC 3508	KBPC 3510	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified current 3/8" lead length at Ta=55℃	If(av)	35							A A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	400							A
Maximum Instantaneous Forward Voltage at forward current 17.5A DC	Vf	1.1							V
Maximum DC Reverse Voltage Ta=25℃	Ir	10.0							μA
at rated DC blocking voltage Ta=100℃		500							μA
Operating Temperature Range	Tj	-55 to +150							℃
Storage and operation Junction Temperature	Tstg	-55 to +150							℃

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CHENYI ELECTRONICS

KBPC35005 THRU KBPC3510

SINGLE PHASE SILICON BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:35A

RATINGS AND CHARACTERISTIC CURVES KBPC35005 THRU KBPC3510

FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

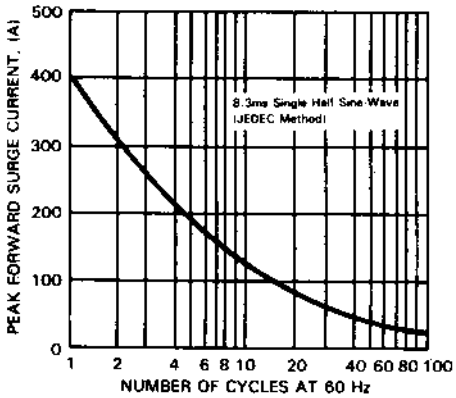


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

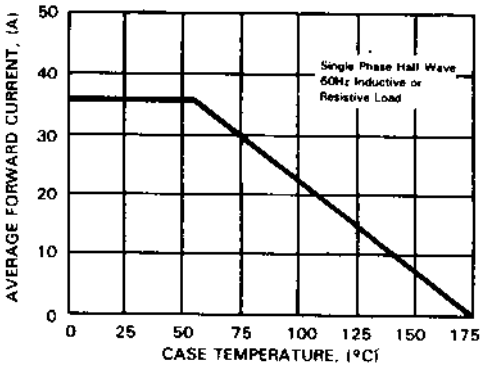
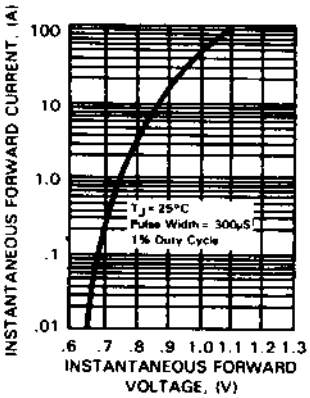
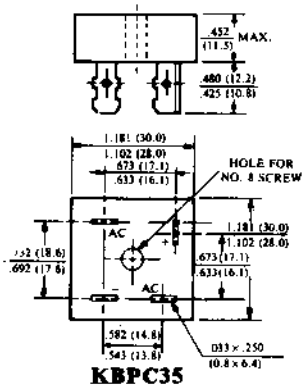


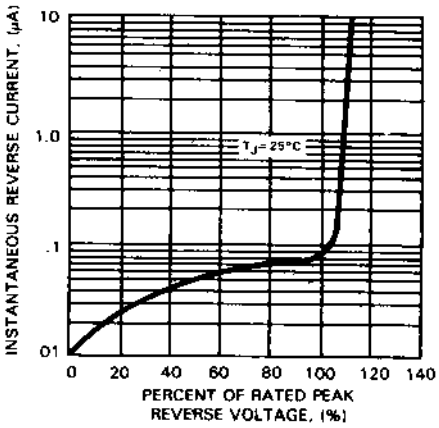
FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

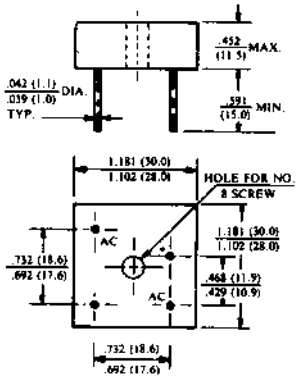




KBPC35

FIG.4-TYPICAL REVERSE CHARACTERISTICS





KBPC35W

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RoHS COMPLIANT

桥式整流器 Bridge Rectifier

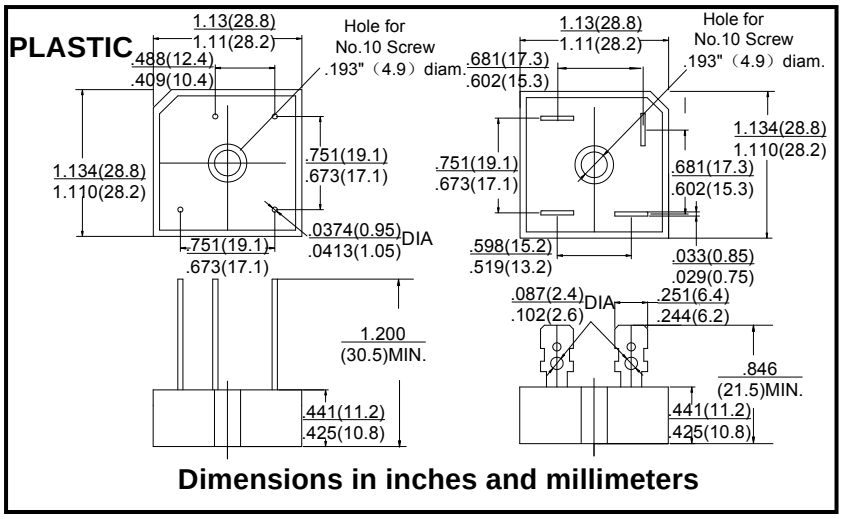
■特征 Features

- I_o 25A
- V_{RRM} 50V~1000V
- 耐正向浪涌电流能力高
  High surge forward current capability

■用途 Applications

- 作一般电源单相桥式整流用
  General purpose 1 phase Bridge rectifier applications

■外形尺寸和印记 Outline Dimensions and Mark



Dimensions in inches and millimeters

■极限值（绝对最大额定值）

Limiting Values（Absolute Maximum Rating）

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions		BR 005	01	02	04	06	08	10
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V			50	100	200	400	600	800	1000
平均整流输出电流 Average Rectified Output Current	I_O	A	60Hz正弦波，电阻负载 60Hz sine wave, R-load	用散热器 Tc=55℃ With heatsink Tc=55℃	25						
正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz正弦波，一个周期，T_a=25℃ 60Hz sine wave, 1 cycle, T_a=25℃		400						
正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time	I^2t	A^2S	1ms≤t<8.3ms Tj=25℃，单个二极管 1ms≤t<8.3ms Tj=25℃，Rating of per diode		660						
存储温度 Storage Temperature	T_{stg}	℃			-55 ~+150						
结温 Junction Temperature	T_j	℃			-55~+125						
绝缘耐压 Dielectric Strength	V_{dis}	KV	端子与外壳之间外加交流电，一分钟 Terminals to case，AC 1 minute		2.5						
安装扭矩 Mounting Torque	TOR	kg·cm	推荐值：10kg·cm Recommend torque：10kg·cm		20						

■电特性 （T_a=25℃ 除非另有规定）

Electrical Characteristics（T_a=25℃ Unless otherwise specified）

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	最大值 Max
正向峰值电压 Peak Forward Voltage	V_{FM}	V	I_{FM}=12.5A，脉冲测试，单个二极管的额定值 I_{FM}=12.5A, Pulse measurement, Rating of per	1.1
反向峰值电流 Peak Reverse Current	I_{RRM}	μA	V_{RM}=V_{RRM} ,脉冲测试，单个二极管的额定值 V_{RM}=V_{RRM} , Pulse measurement, Rating of per diode	10
热阻 Thermal Resistance	$R_{\theta J-C}$	℃/W	结和桥壳之间，用散热片 Between junction and case, With heatsink	1.4

■特性曲线（典型） Characteristics(Typical)

图1：Io-Ta曲线
FIG1:Io-Ta Curve

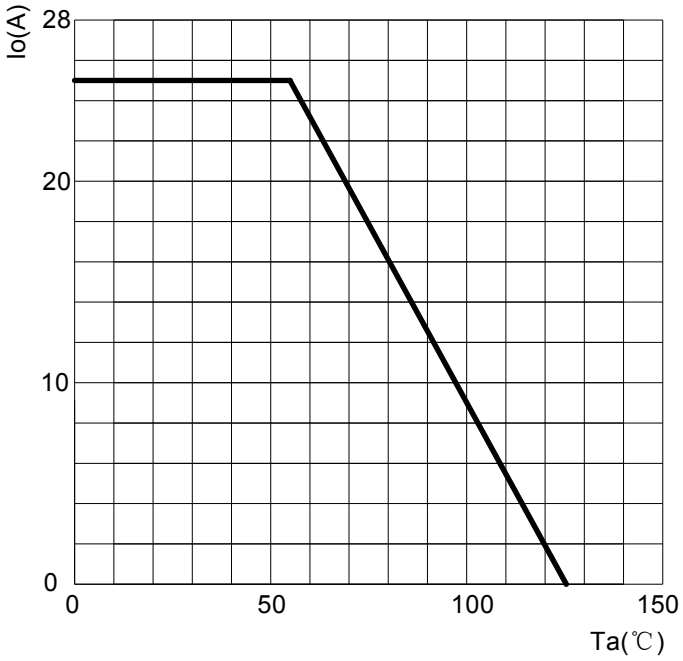


图2：耐正向浪涌电流曲线
FIG2:Surge Forward Current Capadility

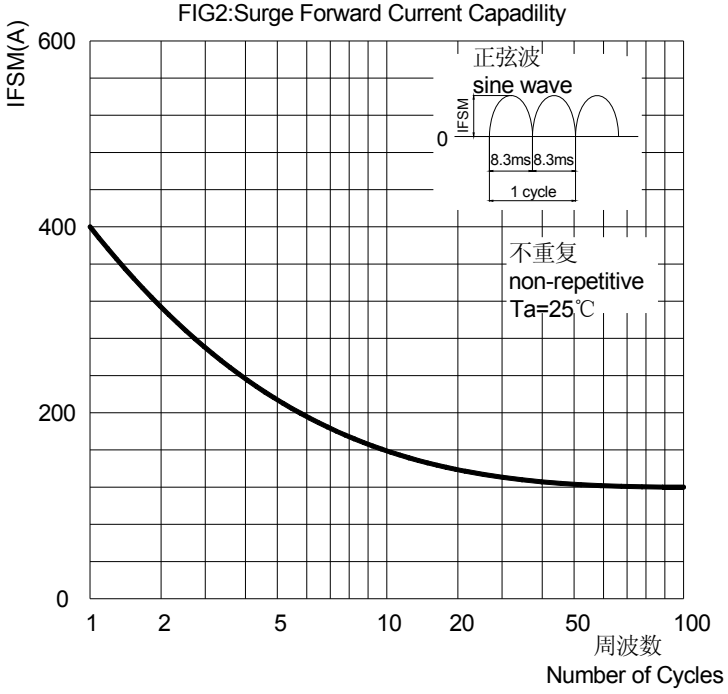


图3：正向电压曲线
FIG3:Instantaneous Forward Voltage

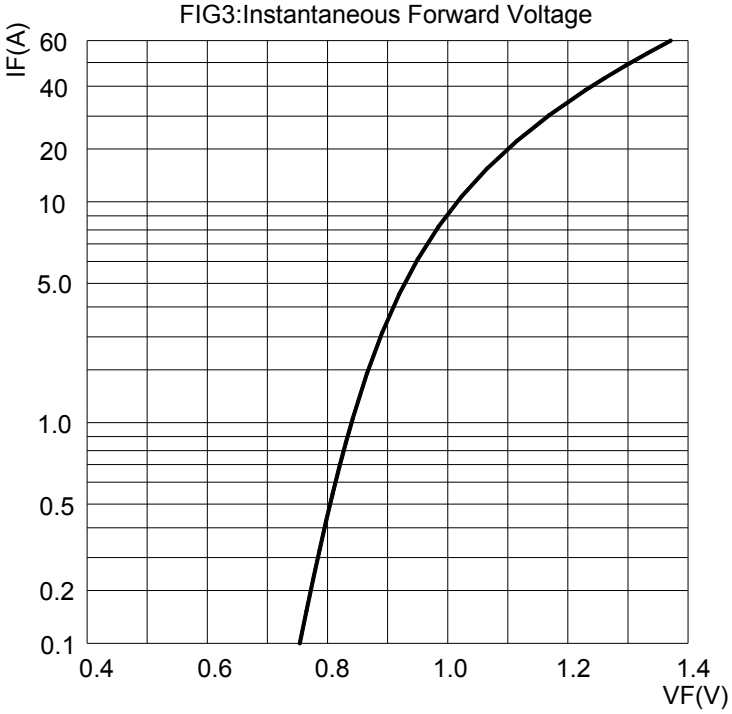
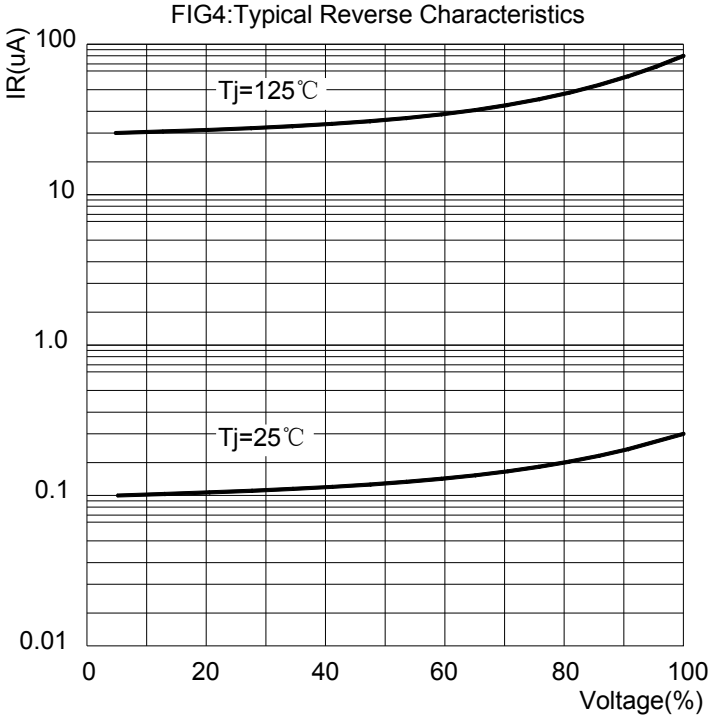


图4：反向电流曲线
FIG4:Typical Reverse Characteristics



RS401 THRU RS407

桥式整流器 Bridge Rectifier

■特征 Features

- I_o 4A
- V_{RRM} 50V~1000V
- 玻璃钝化芯片
  Glass passivated chip
- 耐正向浪涌电流能力高
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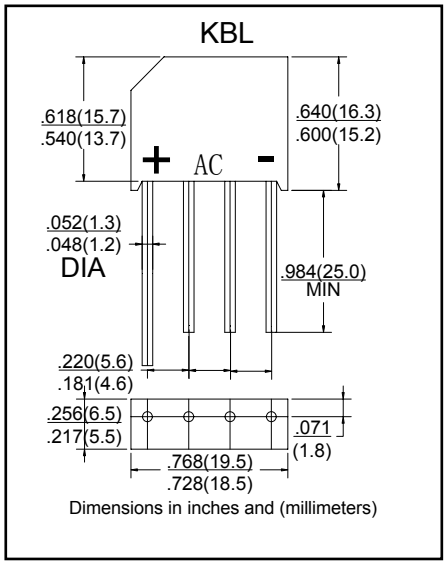
  General purpose 1 phase Bridge rectifier applications

■外形尺寸和印记 Outline Dimensions and Mark



■极限值（绝对最大额定值）
Limiting Values(Absolute Maximum Rating)

参数名称 Item	符号 Symbol	单位 Unit	条件 Conditions	RS4						
				01	02	03	04	05	06	07
反向重复峰值电压 Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	200	400	600	800	1000
平均整流输出电流 Average Rectified Output Current	I_O	A	60Hz 正弦波，电阻负载，T_a=40℃ 60Hz sine wave, R- load, T_a=40℃	4						
正向（不重复）浪涌电流 Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz正弦波，一个周期，T_a=25℃ 60Hz sine wave, 1 cycle, T_a=25℃	200						
正向浪涌电流的平方对电流浪涌持续时间的积分值 Current Squared Time	I^2t	A^2s	1ms≤t＜8.3ms T_j=25℃,单个二极管 1ms≤t＜8.3ms T_j=25℃,Rating of per diode	166						
存储温度 Storage Temperature	T_{STG}	℃		-55 ~+150						
结温 Junction Temperature	T_J	℃		-55 ~+150						

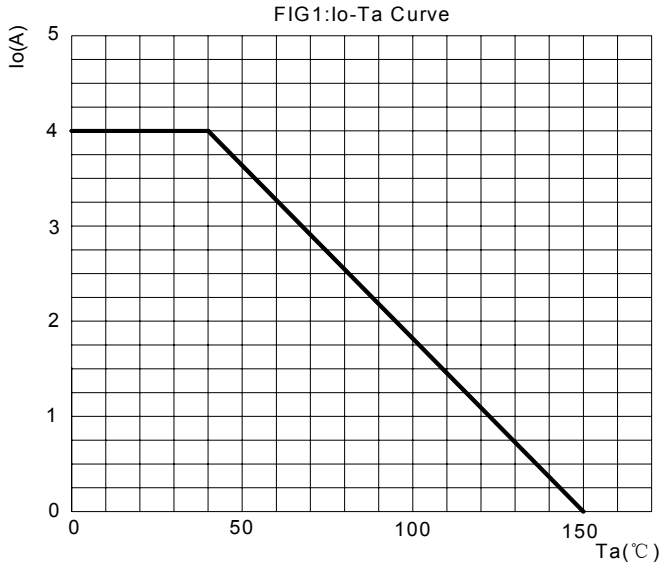
■电特性 （T_a=25℃ 除非另有规定）
Electrical Characteristics（T_a=25℃ Unless otherwise specified）

参数名称 Item	符号 Symbol	单位 Unit	测试条件 Test Condition	最大值 Max
正向峰值电压 Peak Forward Voltage	V_{FM}	V	I_{FM}=4A,脉冲测试，单个二极管的额定值 I_{FM}=4A, Pulse measurement, Rating of per diode	1.05
反向峰值电流 Peak Reverse Current	I_{RRM}	μA	V_{RM}=V_{RRM} ,脉冲测试，单个二极管的额定值T_a=25℃ V_{RM}=V_{RRM} ,脉冲测试，单个二极管的额定值T_a=100℃	10 100
热阻 Thermal Resistance	$R_{\theta J-A}$	℃/W	结和环境之间 Between junction and ambient	9 (1)
	$R_{\theta J-L}$		结和引线之间 Between junction and lead	2.4(2)

说明（Notes）：
（1）PN结到周围环境的热阻,安装在3.0*3.0*0.11”(7.5*7.5*0.3 cm)规格的铝板上
Thermal resistance from junction to ambient with units mounted on 3.0*3.0*0.11” thick(7.5*7.5*0.3cm) aluminum plate
（2）PN结到引线的热阻,安装在PCB板上，引线长0.375’’(9.5mm)，铜板0.5*0.5’’(12*12mm)
Thermal resistance from junction to lead with units mounted on P.C.B.at 0.375’’(9.5mm)lead length and 0.5*0.5’’(12*12mm) copper pads

■特性曲线（典型） Characteristics(Typical)

图1：Io-Ta曲线
FIG1:Io-Ta Curve



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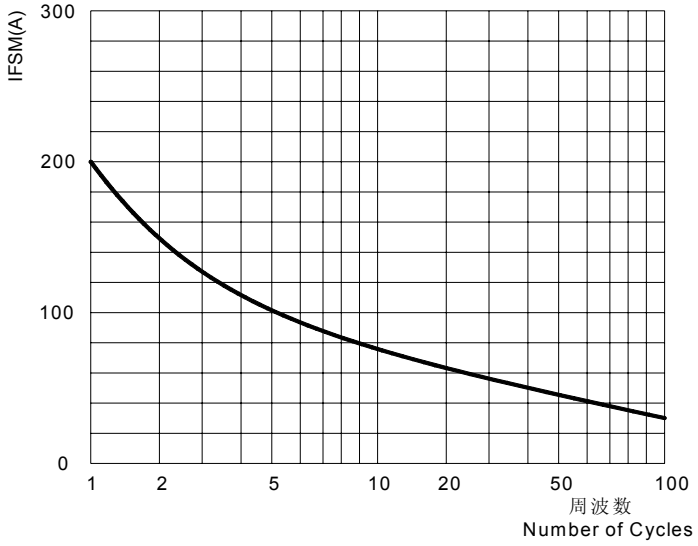

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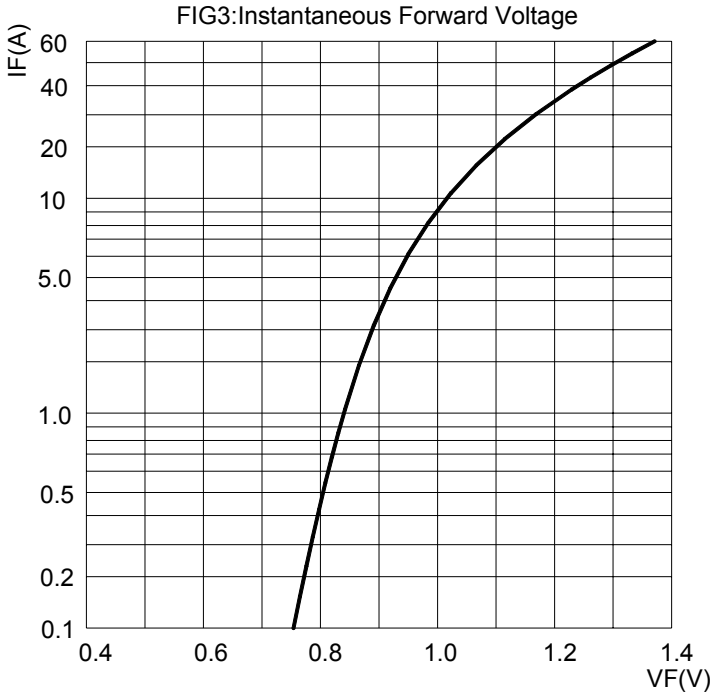

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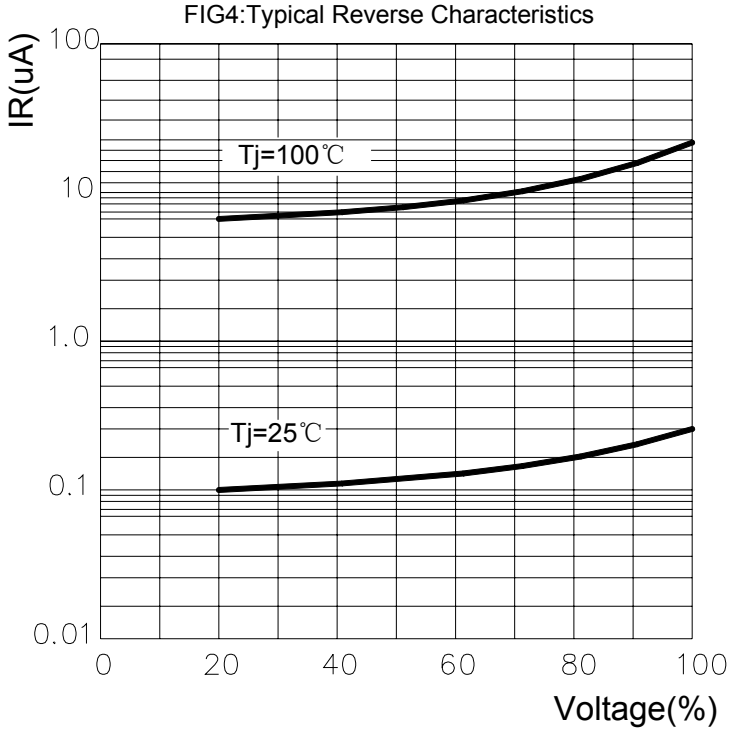

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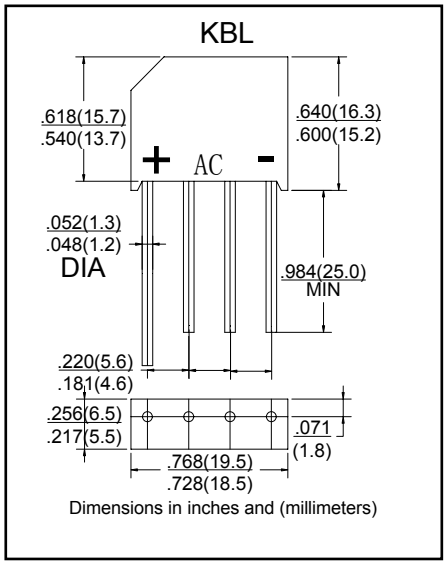

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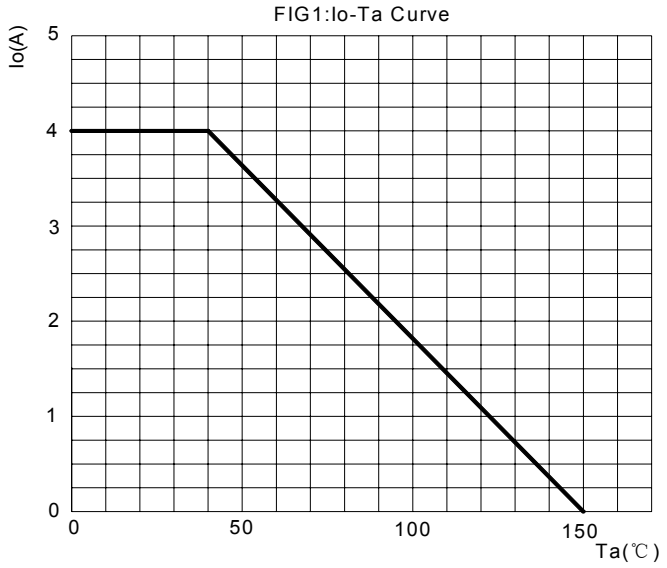

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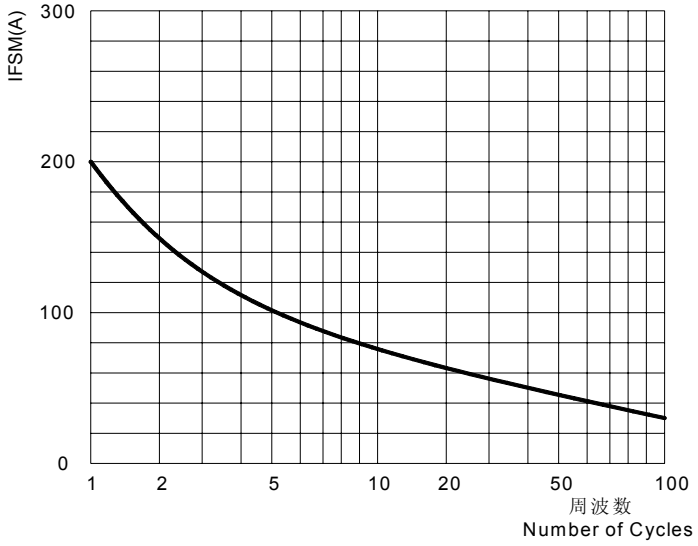

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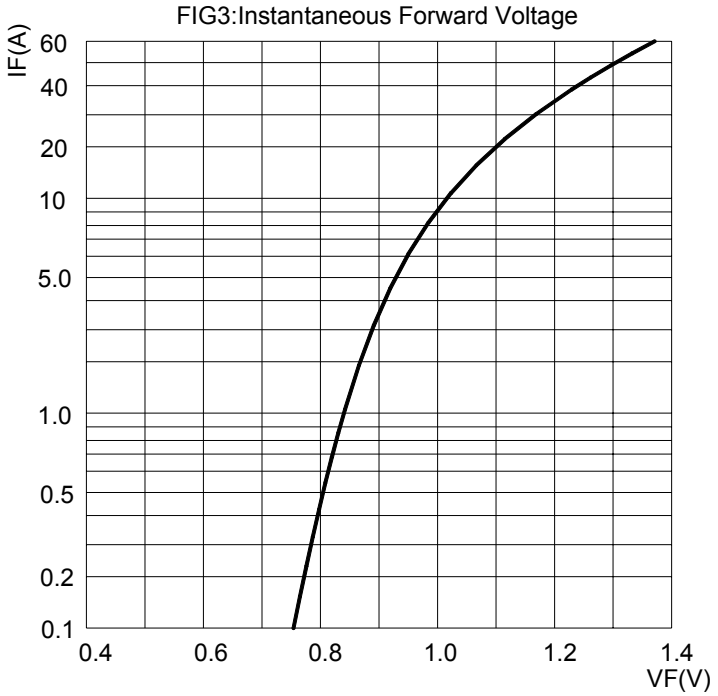

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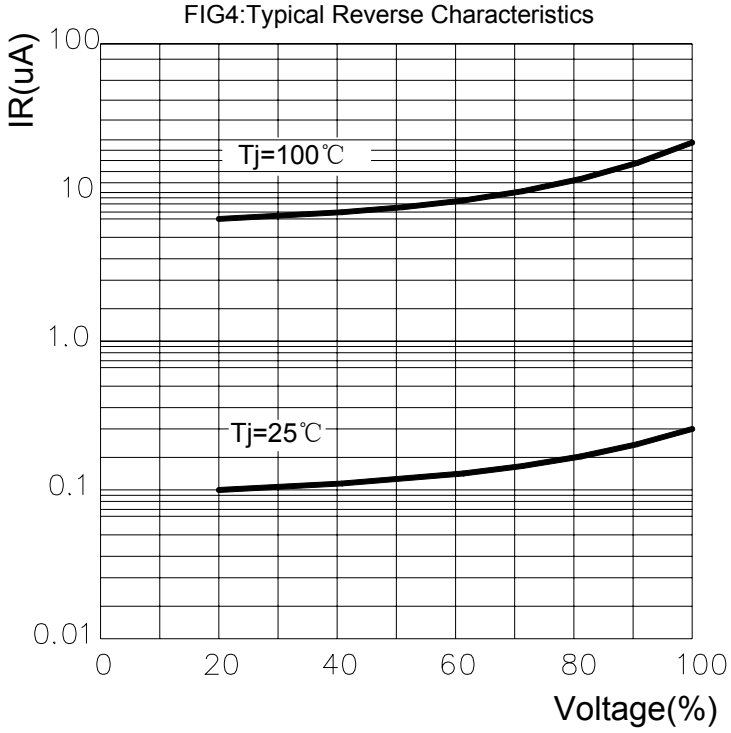
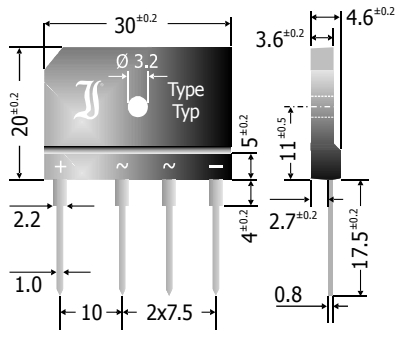


Diotec Semiconductor

GBI20A ... GBI20M

Silicon-Bridge-Rectifiers
Silizium-Brückengleichrichter

Version 2015-04-15



Dimensions - Maße [mm]

Nominal current Nennstrom	20 A
Repetitive peak reverse voltage Periodische Spitzensperrspannung	50...1000 V
Plastic case Kunststoffgehäuse	30 x 20 x 3.6 [mm]
Weight approx. – Gewicht ca.	7 g

Plastic material has UL classification 94V-0
Gehäusematerial UL94V-0 klassifiziert

Standard packaging bulk
Standard Lieferform lose im Karton

Recognized Product – Underwriters Laboratories Inc.® File E175067
Anerkanntes Produkt – Underwriters Laboratories Inc.® Nr. E175067

Maximum ratings **Grenzwerte**

Type Typ	Max. alternating input voltage Max. Eingangswechselspannung V_{VRMS} [V]	Repetitive peak reverse voltage Periodische Spitzensperrspannung V_{RRM} [V] [1])
GBI20A	35	50
GBI20B	70	100
GBI20D	140	200
GBI20G	280	400
GBI20J	420	600
GBI20K	560	800
GBI20M	700	1000

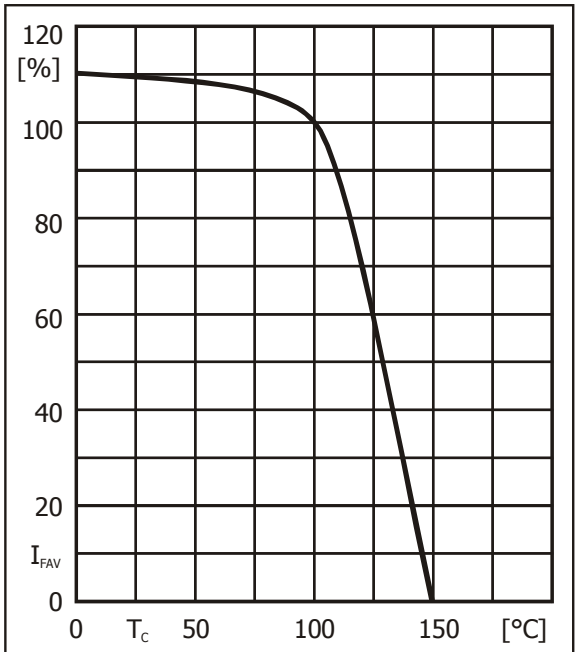
Repetitive peak forward current Periodischer Spitzenstrom	f > 15 Hz	I_{FRM}	45 A [2])
Peak forward surge current, 50/60 Hz half sine-wave Stoßstrom für eine 50/60 Hz Sinus-Halbwelle	T_A = 25°C	I_{FSM}	220/240 A
Rating for fusing, t < 10 ms Grenzlastintegral, t < 10 ms	T_A = 25°C	i^2t	240 A^2s
Operating junction temperature – Sperrschichttemperatur Storage temperature – Lagerungstemperatur		T_j T_S	-50...+150°C -50...+150°C
Admissible torque for mounting Zulässiges Anzugsdrehmoment	M3		7 ± 10% lb.in. 0.8 ± 10% Nm

1 Valid per diode – Gültig pro Diode
2 Valid, if leads are kept to ambient temperature TA = 50°C at a distance of 5 mm from case
Gültig, wenn die Anschlüsse in 5 mm vom Gehäuse auf Umgebungstemperatur TA = 50°C gehalten werden

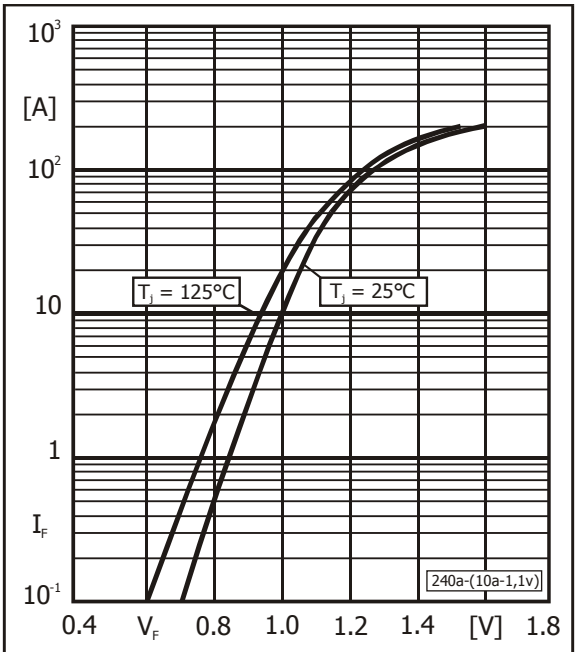
Characteristics **Kennwerte**

Max. rectified current without cooling fin Dauergrenzstrom ohne Kühlblech	T_A = 50°C	R-load C-load	I_{FAV} I_{FAV}	3.6 A [1]) 2.9 A [1])
Max. rectified current with forced cooling Dauergrenzstrom mit forcierter Kühlung	T_C = 100°C	R-load C-load	I_{FAV} I_{FAV}	20.0 A 15.0 A
Forward voltage – Durchlass-Spannung	T_j = 25°C	I_F = 10.0 A	V_F	< 1.1 V [2])
Leakage current – Sperrstrom	T_j = 25°C	$V_R = V_{RRM}$	I_R	< 5 µA
Thermal resistance junction to ambient air Wärmewiderstand Sperrschicht – umgebende Luft			R_{thJA}	< 15 K/W [1])
Thermal resistance junction to case Wärmewiderstand Sperrschicht – Gehäuse			R_{thJC}	< 1.5 K/W

Type Typ	Max. admissible load capacitor Max. zulässiger Ladekondensator C_L [µF]	Min. required protective resistor Min. erforderl. Schutzwiderstand R_L [Ω]
GBI20A	20000	0.2
GBI20B	10000	0.4
GBI20D	5000	0.8
GBI20G	2500	1.6
GBI20J	1500	2.4
GBI20K	1000	3.2
GBI20M	800	4.0



Rated forward current vs. temp. of the case
Zul. Richtstrom in Abh. v. d. Gehäusetemperatur



Forward characteristics (typical values)
Durchlasskennlinien (typische Werte)

1 Valid, if leads are kept to ambient temperature at a distance of 5 mm from case
Gültig, wenn die Anschlüsse in 5 mm Abstand vom Gehäuse auf Umgebungstemperatur gehalten werden
2 Valid per diode – Gültig pro Diode

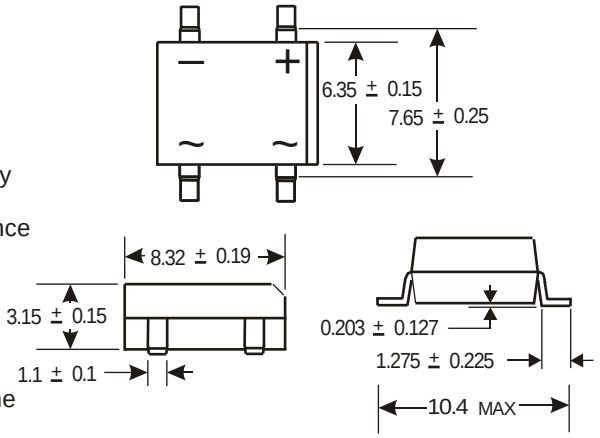
 © Diotec Semiconductor AG

DF005S thru DF10S

1.0 A Single-Phase Glass Passivated Bridge Rectifiers

Rectifier Reverse Voltage 50 to 1000V

DB-S



Dimensions in millimeters(1mm =0.0394")

Features

- This series is UL listed under the Recognized Component Index, file number E142814
- Single In-Line terminals array suitable for P.C. board mounting
- Surge overload ratings to 300 amperes
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Integrally molded heat sinks provide low thermal resistance for maximum heat dissipation
- High temperature soldering guaranteed 265℃/10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case: Molded plastic with heat sink integrally mounted in the bridge encapsulation
Terminals: Plated wire leads solderable per MIL-STD-202, Method 208
Mounting Position: Any
Weight: 0.04 ounce, 1.0 grams (approx)

Maximum Ratings & Thermal Characteristics

Rating at 25°C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz.
For Capacitive load derate current by 20%.

Parameter	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	unit
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at TA=40°C	IF(AV)	1.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	IFSM	50.0							A
Rating for fusing (t<8.3ms)	I^2t	10							A^2sec
Typical thermal resistance per element (1)	ReJA	110							℃/W
Typical junction capacitance per element (2)	Cj	25.0							pF
Operating junction and storage temperature range	TJ, TSTG	-55 to + 150							℃

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz.
For Capacitive load derate by 20 %.

Parameter	Symbol	DF005S	DF01S	DF02S	DF04S	DF06S	DF08S	DF10S	Unit
Maximum instantaneous forward voltage drop per leg at 1.0A	VF	1.1							V
Maximum DC reverse current at rated DC blocking voltage per element TA =25°C TA =125°C	IR	10 500							μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.
(2)Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

Rating and Characteristic Curves (TA = 25°C Unless otherwise noted)
DF005S thru DF10S

Fig. 1 Derating Curve for Output Rectified Current

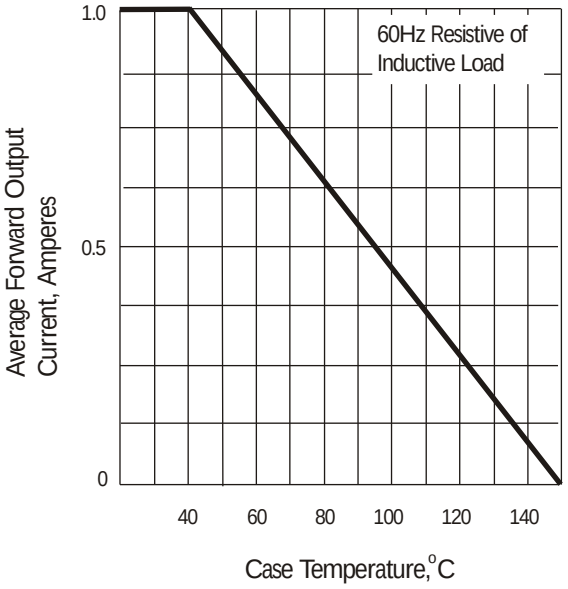


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

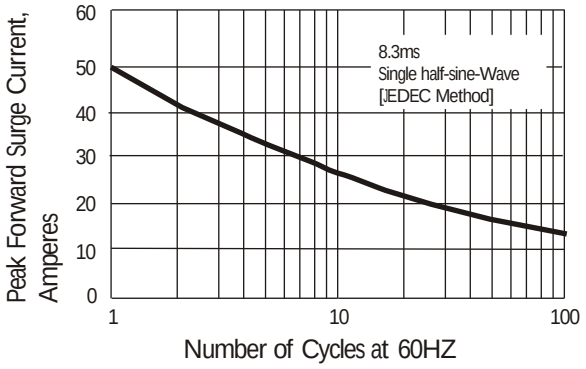


Fig. 3 Typical Instantaneous Forward Characteristics

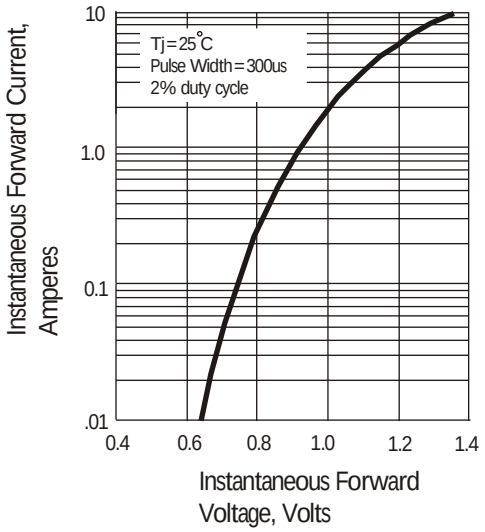


Fig. 4 Typical Revers Characteristics

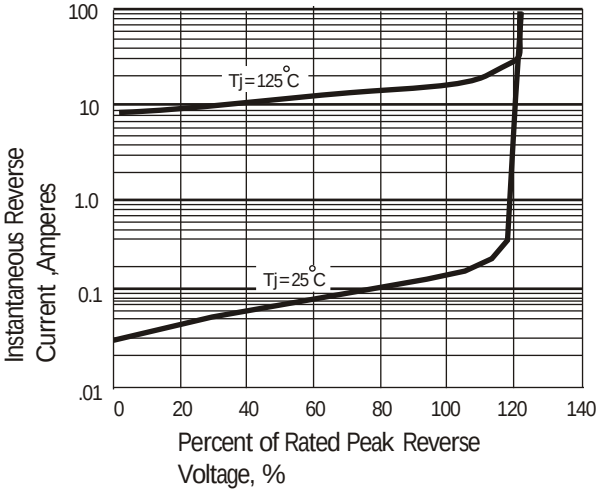
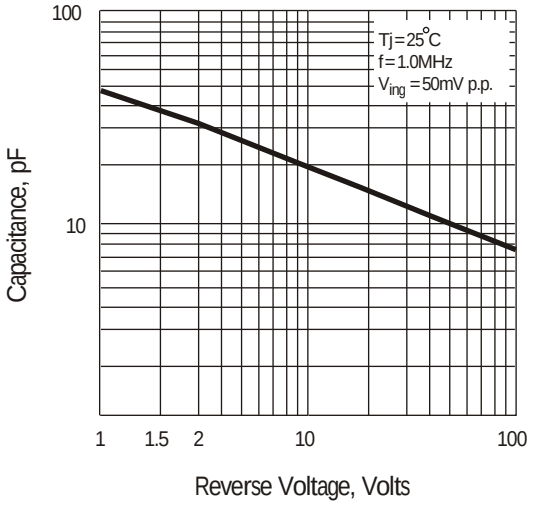
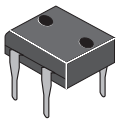


Fig. 5 Typical Junction Capacitance



DB101 THRU DB107

SINGLE PHASE 1.0 AMP BRIDGE RECTIFIERS



VOLTAGE RANGE

50 to 1000 Volts

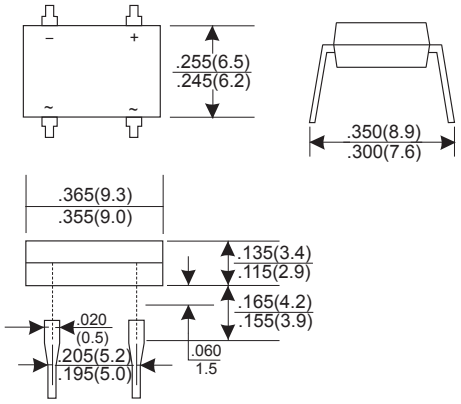
CURRENT

1.0 Ampere

FEATURES

* Ideal for printed circuit board
* Reliable low cost construction utilizing molded plastic technique
* High surge current capability
* Polarity: marked on body
* Mounting position: Any
* Weight: 1.0 grams

DB-1



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25˚C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	DB101	DB102	DB103	DB104	DB105	DB106	DB107	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Ta=40˚C	1.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50							A
Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.	1.1							V
Maximum DC Reverse Current Ta=25˚C	10							μA
at Rated DC Blocking Voltage Ta=125˚C	500							μA
Operating Temperature Range, T_J	-65 — +125							˚C
Storage Temperature Range, T_{STG}	-65 — +150							˚C

RATING AND CHARACTERISTIC CURVES (DB101 THRU DB107)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

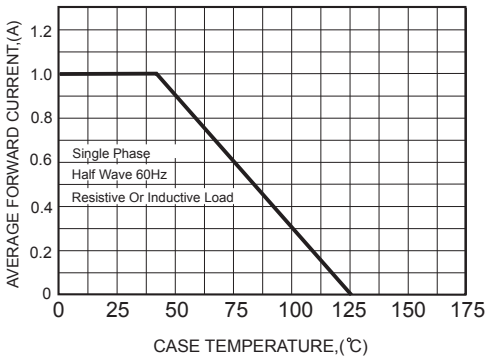


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

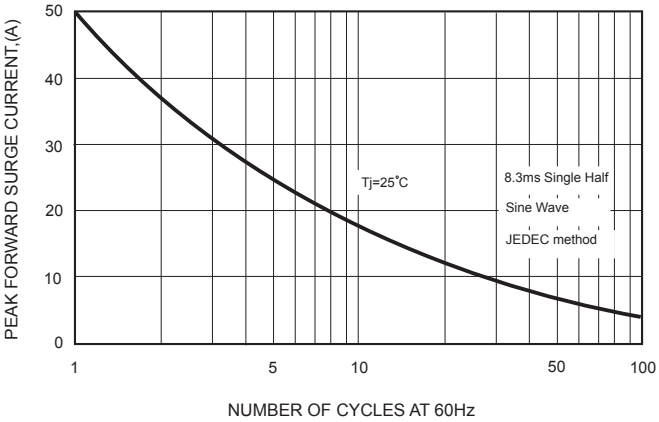


FIG.3-TYPICAL FORWARD CHARACTERISTICS

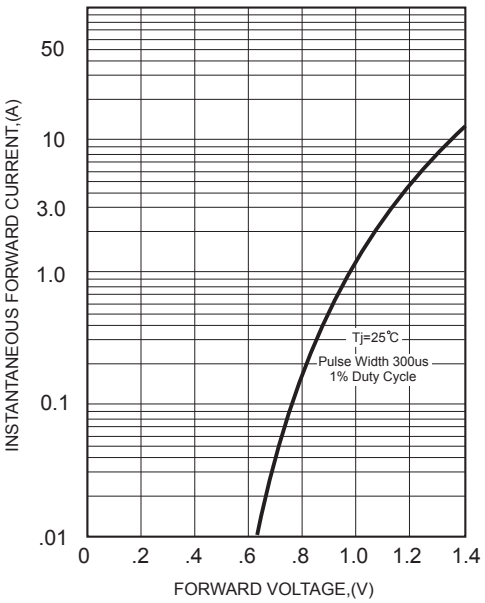
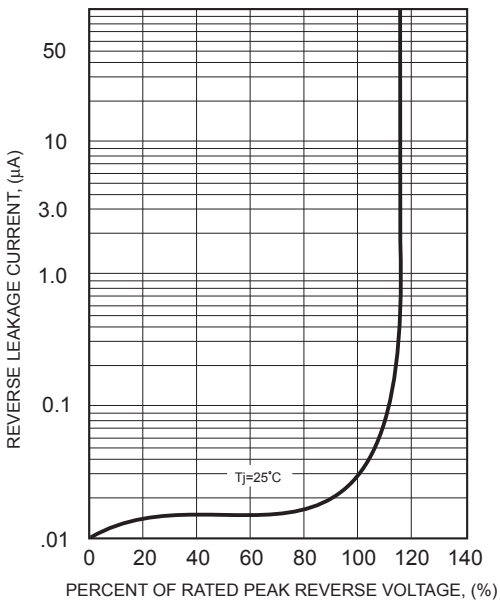


FIG.4-TYPICAL REVERSE CHARACTERISTICS

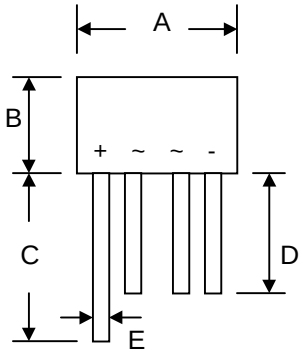


W005M – W10M

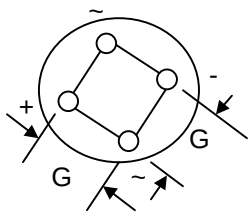
1.5A BRIDGE RECTIFIER

Features

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- UL Recognized File # E157705



WOB		
Dim	**Min**	**Max**
A	8.60	9.10
B	5.0	5.50
C	27.9	—
D	25.4	—
E	0.71	0.81
G	4.60	5.60
All Dimensions in mm		



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Weight: 1.1 grams (approx.)
- Mounting Position: Any
- Marking: Type Number

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

Characteristic	Symbol	W005M	W01M	W02M	W04M	W06M	W08M	W10M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1) @T_A = 50°C	I_O	1.5							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40							A
Forward Voltage (per element) @I_F = 1.5A	V_{FM}	1.0							V
Peak Reverse Current @T_A = 25°C At Rated DC Blocking Voltage @T_A = 100°C	I_{RM}	10 500							µA
Operating Temperature Range	T_j	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case.

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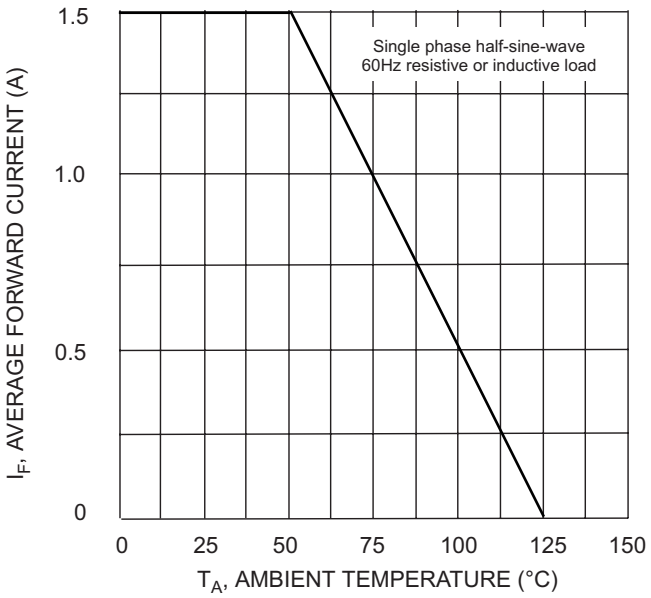

Fig. 1 Forward Current Derating Curve

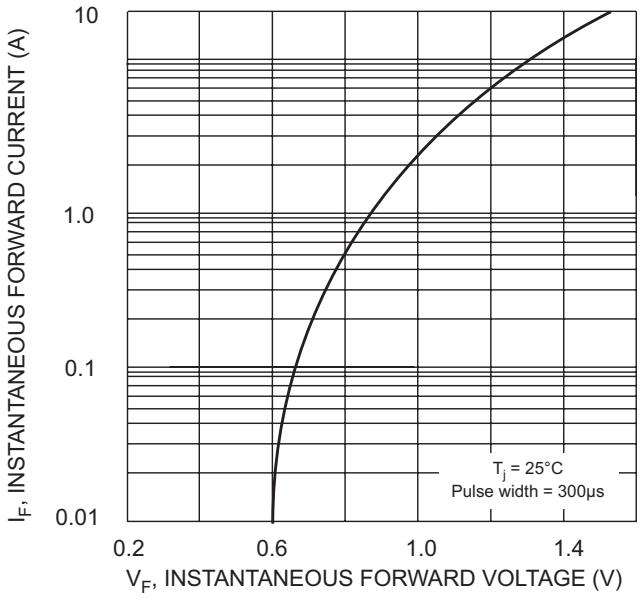

Fig. 2 Typical Forward Characteristics, per element

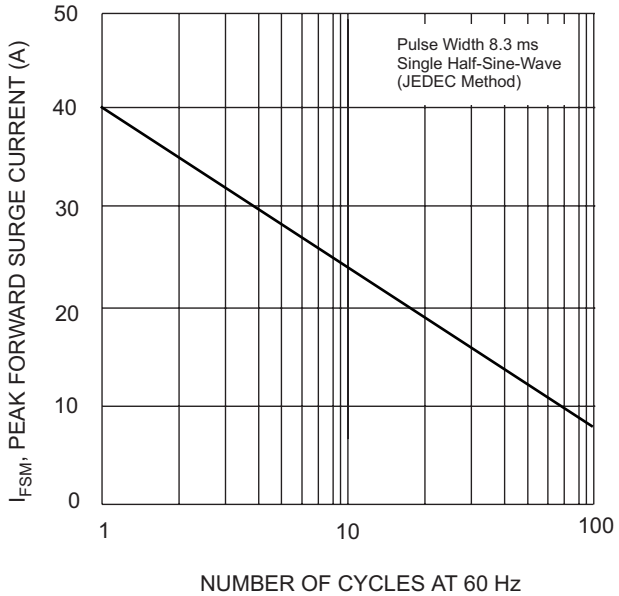

Fig. 3 Max Non-Repetitive Surge Current

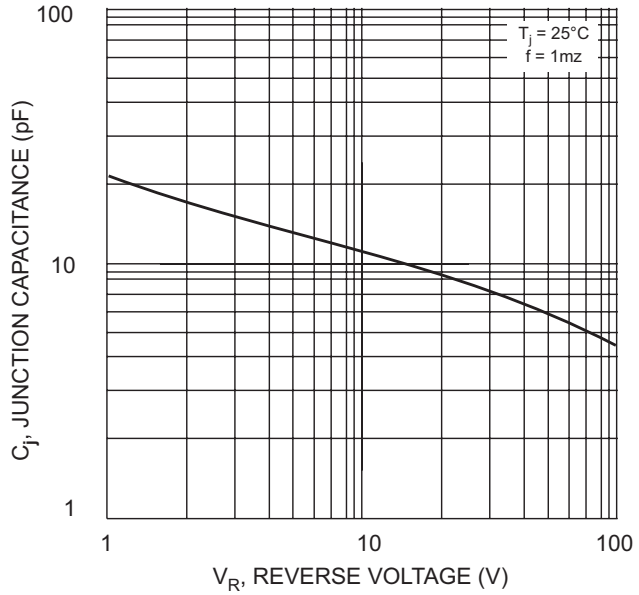

Fig. 4 Typical Junction Capacitance

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ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
W005M	Round Bridge	1000 Units/Box
W01M	Round Bridge	1000 Units/Box
W02M	Round Bridge	1000 Units/Box
W04M	Round Bridge	1000 Units/Box
W06M	Round Bridge	1000 Units/Box
W08M	Round Bridge	1000 Units/Box
W10M	Round Bridge	1000 Units/Box

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

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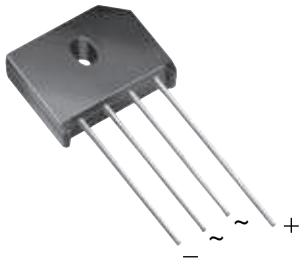
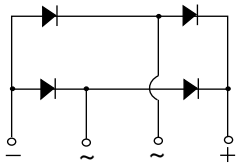
Single-Phase Bridge Rectifier





Case Style KBU

FEATURES

- UL recognition, file number E54214
- Ideal for printed circuit boards
- High surge current capability
- High case dielectric strength of 1500 V_{RMS}
- Solder dip 275 °C max. 10 s, per JESD 22-B106
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

RoHS COMPLIANT

TYPICAL APPLICATIONS

General purpose use in AC/DC bridge full wave rectification for monitor, TV, printer, SMPS, adapter, audio equipment, and home appliances applications.

PRIMARY CHARACTERISTICS	
Package	KBU
$I_{F(AV)}$	6 A
V_{RRM}	50 V, 100 V, 200 V, 400 V, 600 V, 800 V, 1000 V
I_{FSM}	200 A
I_R	5 µA
V_F at I_F = 6 A	1.0 V
T_J max.	150 °C
Diode variations	In-Line

MECHANICAL DATA

Case: KBU

Molding compound meets UL 94 V-0 flammability rating Base P/N-E4 - RoHS-compliant, commercial grade

Terminals: Silver plated leads, solderable per J-STD-002 and JESD22-B102

Polarity: As marked on body

Mounting Torque: 10 cm-kg (8.8 inches-lbs) max.

Recommended Torque: 5.7 cm-kg (5 inches-lbs)

MAXIMUM RATINGS (T_A = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage		V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage		V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current at	T_C = 100 °C (1)(3)	$I_{F(AV)}$	6.0							A
	T_A = 40 °C (2)		6.0							
Peak forward surge current single sine-wave superimposed on rated load		I_{FSM}	250							A
Operating junction and storage temperature range		T_J, T_{STG}	-50 to +150							°C

Notes

(1) Recommended mounted position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw

(2) Thermal resistance from junction to ambient with units in free air, PCB mounted on 0.5" x 0.5" (12 mm x 12 mm) copper pads, 0.375" (9.5 mm) lead length

(3) Thermal resistance from junction to case with units mounted on a 2.6" x 1.4" x 0.06" thick (6.5 cm x 3.5 cm x 0.15 cm) aluminum plate

ELECTRICAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)

PARAMETER	TEST CONDITIONS	SYMBOL	KBU6A	KBU6B	KBU6D	KBU6G	KBU6J	KBU6K	KBU6M	UNIT
Maximum instantaneous forward drop per diode	I_F = 6.0 A	V_F	1.0							V
Maximum DC reverse current at rated DC blocking voltage per diode	T_A = 25 °C	I_R	5.0							µA
	T_A = 125 °C		1.0							mA

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THERMAL CHARACTERISTICS (T_A = 25 °C unless otherwise noted)									
PARAMETER	**SYMBOL**	**KBU6A**	**KBU6B**	**KBU6D**	**KBU6G**	**KBU6J**	**KBU6K**	**KBU6M**	**UNIT**
Typical thermal resistance	$R_{\theta JA}$ (1)	8.6							°C/W
	$R_{\theta JC}$ (2)	3.1							

Notes

(1) Thermal resistance from junction to ambient with units in free air, PCB mounted on 0.5" x 0.5" (12 mm x 12 mm) copper pads, 0.375" (9.5 mm) lead length

(2) Thermal resistance from junction to case with units mounted on a 2.6" x 1.4"x 0.06" thick (6.5 cm x 3.5 cm x 0.15 cm) Al. plate

ORDERING INFORMATION (Example)				
PREFERRED P/N	**UNIT WEIGHT (g)**	**PREFERRED PACKAGE CODE**	**BASE QUANTITY**	**DELIVERY MODE**
KBU6J-E4/51	8.0	51	250	Anti-static PVC tray

RATINGS AND CHARACTERISTICS CURVES (T_A = 25 °C unless otherwise noted)

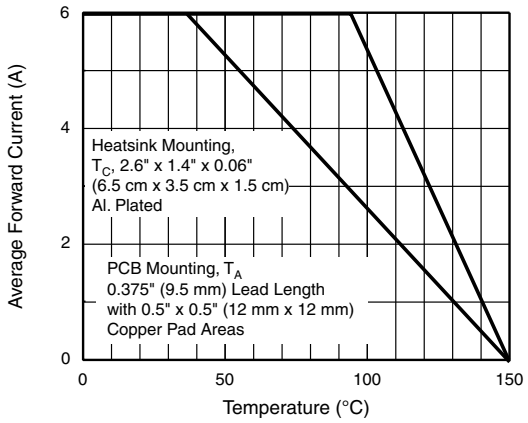

Fig. 1 - Derating Curve Output Rectified Current

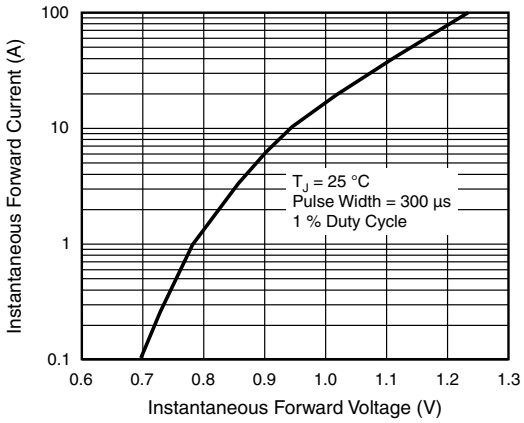

Fig. 3 - Typical Instantaneous Forward Characteristics Per Diode

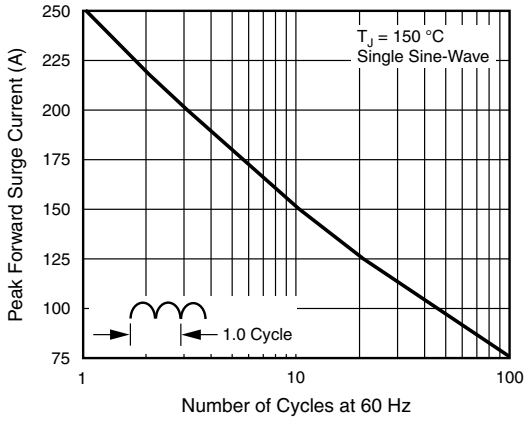

Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current Per Diode

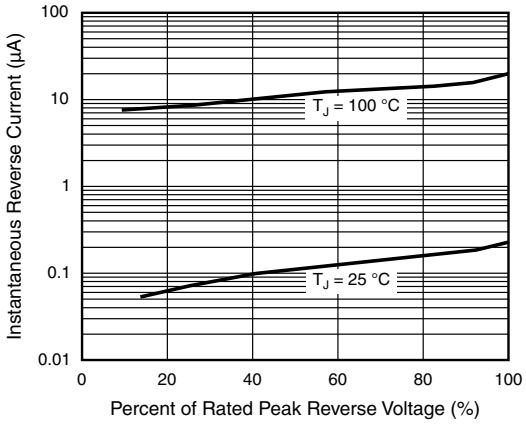

Fig. 4 - Typical Reverse Leakage Characteristics Per Diode

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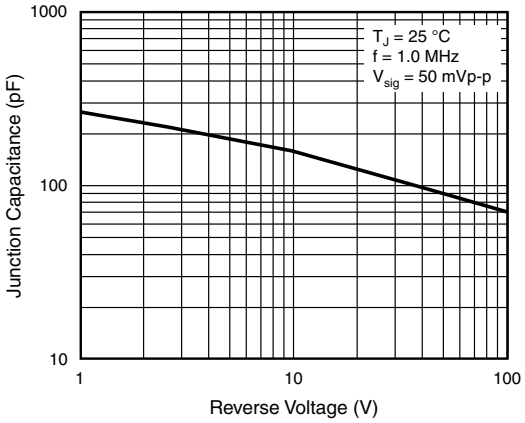
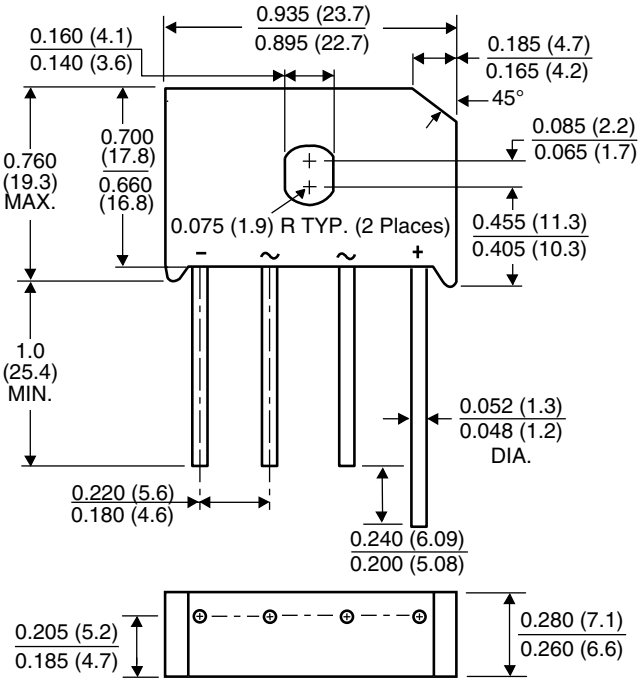


Fig. 5 - Typical Junction Capacitance Per Diode

PACKAGE OUTLINE DIMENSIONS in inches (millimeters)

Case Style KBU



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

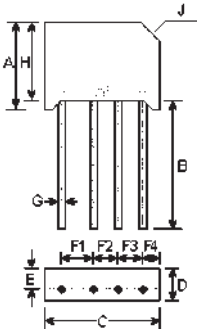
RS501 THRU RS507

SINGLE-PHASE SILICON BRIDGE
Reverse Voltage - 65 to 1000 Volts
Forward Current - 5.0 Amperes

Features

- Plastic material used carries Underwriters Laboratory recognition 94V-0
- High surge current capability
- Ideal for printed circuit board
- Typical I_R less than 1 μ A
- Built-in printed board stand offs
- High temperature soldering guaranteed: 250℃ for 5 seconds

RS-5



DIMENSIONS					
DIM	inches		mm		Note
	Min.	Max.	Min.	Max.	
A	0.825	0.855	21.0	21.7	
B	1.0	-	25.4	-	
C	1.550	1.580	39.4	40.1	
D	0.180	0.195	4.6	5.0	
E	0.245	0.265	6.2	6.7	
F1	0.385	0.400	9.8	10.2	
F2	0.285	0.300	7.2	7.6	
F3	0.285	0.300	7.2	7.6	
F4	0.345	0.365	8.8	9.3	
G	0.038	0.042	0.97	1.07	
H	0.795	0.825	20.2	21.0	
J	0.188(4.8)x45°				

Mechanical Data

- **Case:** Reliable low cost construction utilizing molded plastic technique
- **Terminals:** Leads solderable per MIL-STD-202, method 208
- **Mounting Position:** Any
- **Weight:** 0.92 ounce, 25.3 grams

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified. resistive or inductive load at 50Hz or 60Hz.

	Symbols	RS501	RS502	RS503	RS504	RS505	RS506	RS507	Units
Maximum repetitive peak reverse voltage	V_{RRM}	65	125	200	400	600	800	1000	Volts
Maximum RMS input voltage R + C-Load	V_{RMS}	40	80	125	250	380	500	630	Volts
Maximum DC blocking voltage [1]	V_{DC}	65	125	200	400	600	800	1000	Volts
Maximum non-repetitive peak reverse voltage [1]	V_{RSM}	100	190	300	600	900	1200	1500	Volts
Maximum average forward output current I_{FAVM} natural cooling, T_A=45℃ C-Load R+L-Load on chassis=31in², 200cm²; T_A=45℃ C-Load R+L-Load	$I_{(AV)}$	3.3 4.0 5.0 6.0							Amps
Maximum repetitive peak forward surge current	I_{FRM}	30.0							APK
Peak surge forward current single sine-wave on rated load T_J=25℃ T_J=150℃	I_{FSM}	250 200							APK
I²t Rating for fusing (t>8.3mS) T_J=25℃ T_J=150℃	I^2t	312 200							A^2S A^2S
Minimum series resistance at V_{RMS}	R	0.15	0.3	0.6	1.2	1.8			OHM
Maximum reservoir capacitor	C	10000	5000	5000	2500	1000			μ F
Maximum reverse current at rated repetitive peak voltage T_J=25℃ T_J=150℃	I_R	10 6.0							μ A mA
Maximum instantaneous forward voltage drop per element at 5.0A	V_F	1.1							VPK
Operating and storage temperature range	T_J, T_{STG}	-55 to +150							℃

Note:

(1) Valid for each bridge element

RATINGS AND CHARACTERISTIC CURVES

FIG. 1 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

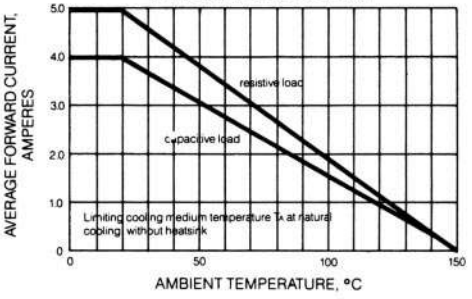


FIG. 2 — DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

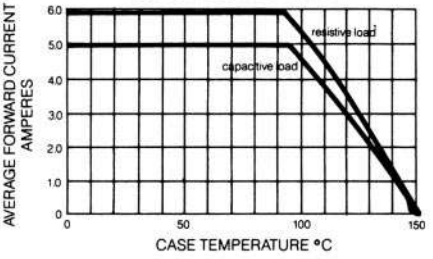


FIG. 3 — TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC PER BRIDGE ELEMENT

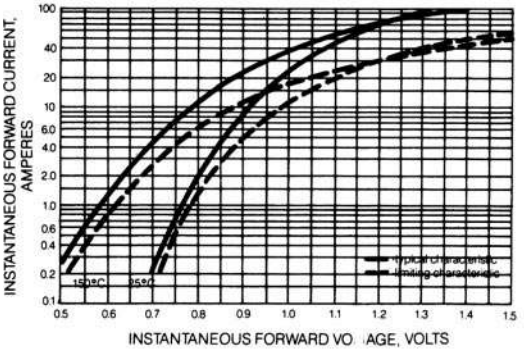


FIG. 4 — MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

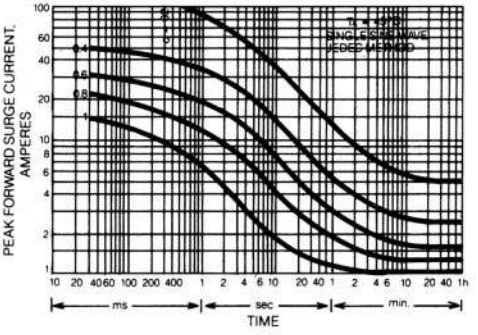


FIG. 5 — MAXIMUM TOTAL BRIDGE POWER DISSIPATION

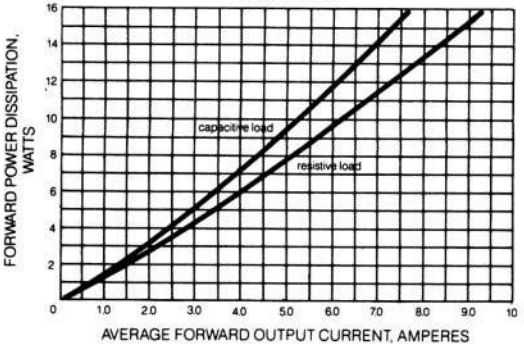
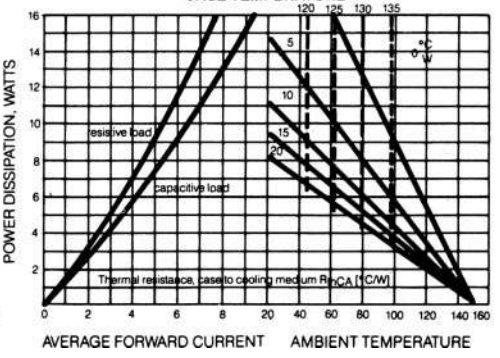


FIG. 6 — MEAN AVERAGE FORWARD CURRENT CASE TEMPERATURE



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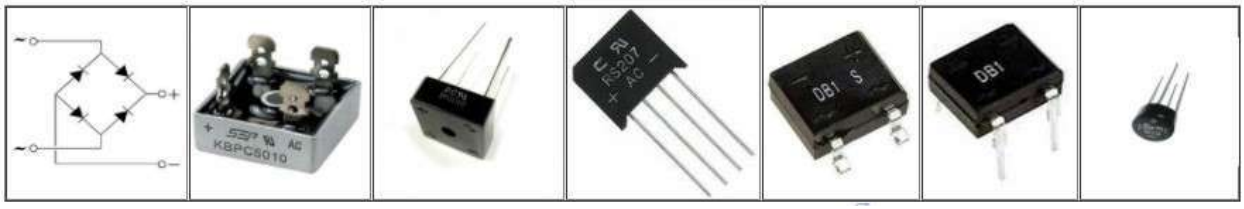

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