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каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото, модуль, *nihon, niec*

## КАТАЛОГ

модуль , igbt, мост диодный,

купить, продажа

## ЭЛЕКТРОННЫЕ КОМПОНЕНТЫ

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# Power Module

SHORT FORM CATALOG

March, 2008

*NIEC for your better life.*



**Nihon Inter Electronics Corporation**

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<http://www.niec.co.jp/>*

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# Rectifier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
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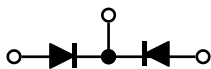
E-1

		PH1503	150	300	1.28	E-1
		PH1504	150	400	1.28	E-1
		PH1508	150	800	1.28	E-1
		PH2503	250	300	1.22	E-1
		PH2504	250	400	1.22	E-1
		PH2508	250	800	1.22	E-1
		PH4008	400	800	1.25	E-35
New		PH400N8	400	800	1.35	E-35
		PH40016	400	1600	1.45	E-35
New		PH400N16	400	1600	1.45	E-35

# Rectifier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
-------------	-----------------	---------------	--------------	--------------

**PC**

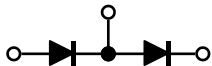


E-3

	PC308	30	800	1.25	E-2
	PC3012	30	1200	1.3	E-3
	PC3016	30	1600	1.3	E-3
	PC608	60	800	1.25	E-2
	PC6012	60	1200	1.35	E-3
	PC6016	60	1600	1.35	E-3
	PC1008	100	800	1.25	E-2
	PC10012	100	1200	1.35	E-3
	PC10016	100	1600	1.35	E-3
	PC1508	150	800	1.28	E-4
	PC15012	150	1200	1.28	E-4
	PC15016	150	1600	1.28	E-4
	PC2008	200	800	1.24	E-4
	PC20012	200	1200	1.28	E-4
	PC20016	200	1600	1.28	E-4
	PC2503	250	300	1.22	E-4
	PC2504	250	400	1.22	E-4
	PC2508	250	800	1.22	E-4
	PC25012	250	1200	1.35	E-4
	PC25016	250	1600	1.35	E-4
	PC4008	400	800	1.25	E-34
New	PC400N8	400	800	1.35	E-34
	PC40016	400	1600	1.45	E-34
New	PC400N16	400	1600	1.45	E-34

# Rectifier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
-------------	-----------------	---------------	--------------	--------------



E-3

		PD308	30	800	1.25	E-2
New		PD30KN8	30	800	1.23	E-60
		PD3012	30	1200	1.3	E-3
		PD3016	30	1600	1.3	E-3
New		PD30KN16	30	1600	1.29	E-60
		PD608	60	800	1.25	E-2
New		PD60KN8	60	800	1.30	E-60
		PD6012	60	1200	1.35	E--3
		PD6016	60	1600	1.35	E--3
New		PD60KN16	60	1600	1.33	E-60
		PD1008	100	800	1.25	E--2
New		PD100KN8	100	800	1.41	E-60
		PD10012	100	1200	1.35	E--3
		PD10016	100	1600	1.35	E--3
New		PD100KN16	100	1600	1.54	E-60
		PD1508	150	800	1.28	E--5
		PD150S8	150	800	1.43	E-58
New		PD150KN8	150	800	1.36	E-61
		PD15012	150	1200	1.28	E--5
		PD15016	150	1600	1.28	E--5
New		PD150KN16	150	1600	1.51	E-61
		PD150S16	150	1600	1.43	E-58
		PD1518	150	800	1.28	E--44
		PD15116	150	1600	1.28	E--44
		PD2008	200	800	1.24	E-5
		PD200S8	200	800	1.43	E-58
New		PD200KN8	200	800	1.40	E-61
		PD20012	200	1200	1.28	E-5

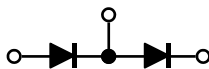
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# Rectifier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
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**PD**

*Continued*

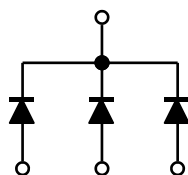


E-5

New

	PD20016	200	1600	1.28	E-5
	PD200S16	200	1600	1.5	E-58
	PD200KN16	200	1600	1.53	E-61
	PD2018	200	800	1.24	E-44
	PD20116	200	1600	1.33	E-44
	PD230S8	230	800	1.41	E-58
	PD230S16	230	1600	1.59	E-58
	PD2503	250	300	1.22	E--5
	PD2504	250	400	1.22	E--5
	PD2508	250	800	1.22	E--5
	PD25012	250	1200	1.35	E--5
	PD25016	250	1600	1.35	E--5
	PD4008	400	800	1.25	E--34
New	PD400N8	400	800	1.35	E-34
	PD40016	400	1600	1.45	E--34
New	PD400N16	400	1600	1.45	E-34

**PE**



Non-Insulated Package



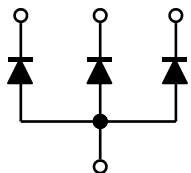
E-2

	PE308N	30	800	1.25	E-2
	PE608N	60	800	1.25	E-2
	PE1008N	100	800	1.25	E-2
	PE1508N	150	800	1.28	E-6

# Rectifier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
-------------	-----------------	---------------	--------------	--------------

**PF**



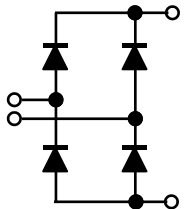
Non-Insulated Package



E6

	PF308N	30	800	1.25	E-2
	PF608N	60	800	1.25	E-2
	PF1008N	100	800	1.25	E-2
	PF1508N	150	800	1.28	E-6

**PB**



E-8

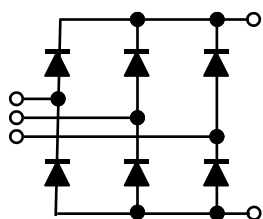
	PB10S6	10	600	1.0	E-8
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# Rectifier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
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**PT**



E-16

	PT30S8	30	800	1.1	E-7
	 PT368	36	800	1.13	E-15
	 PT3610	36	1000	1.13	E-15
	 PT508C	50	800	1.2	E-7
	 PT518	50	800	1.15	E-16
	 PT50S8	50	800	1.2	E-17
	 PT5112	50	1200	1.3	E-16
	 PT5116	50	1600	1.3	E-16
	 PT50S16	50	1600	1.3	E-17
	 PT768	75	800	1.2	E-16
	 PT76S8A	75	800	1.2	E-17
<i>New</i>	PT75KN8	75	800	1.23	E-62
	 PT7612	75	1200	1.4	E-16
	 PT76S12	75	1200	1.4	E-17
	 PT7616	75	1600	1.4	E-16
	 PT76S16	75	1600	1.4	E-17
<i>New</i>	PT75KN16	75	1600	1.29	E-62

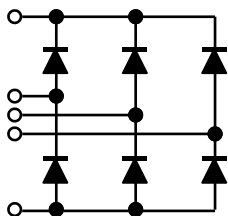
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# Rectifier Diode















Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
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**PT**

*Continued*



E-16

		PT1018	100	800	1.16	E-16
		PT100S8	100	800	1.28	E-17
New		PT100KN8	100	800	1.27	E-62
		PT10112	100	1200	1.2	E-16
		PT10116	100	1600	1.2	E-16
		PT100S16	100	1600	1.2	E-17
New		PT100KN16	100	1600	1.23	E-63
		PT151S8	150	800	1.25	E-17
		PT150S8	150	800	1.2	E-18
New		PT150KN8	150	800	1.35	E-63
		PT150S12	150	1200	1.35	E-18
		PT150S16	150	1600	1.35	E-18
New		PT150KN16	150	1600	1.40	E-63
		PT200S8	200	800	1.2	E-18
New		PT200KN8	200	800	1.40	E-63
		PT200S12	200	1200	1.35	E-18
		PT200S16	200	1600	1.35	E-18
New		PT200KN16	200	1600	1.46	E-63
		PT300S8	300	800	1.51	E-51
		PT300S16	300	1600	1.51	E-51

# Fast Recovery Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	trr (ns)	Case Out-line
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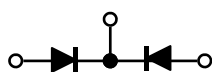
## PH-F



E-24

PH270F2	270	200	0.97	150	E24
PH270F6	270	600	1.50	150	E24

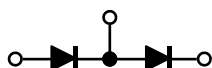
## PC-F



E-11

PC50F2	50	200	1.00	80	E-10
PC50F4	50	400	1.20	80	E-10
PC50F5	50	500	1.35	90	E-10
PC50F6	50	600	1.50	100	E-10
PC100F2	100	200	1.00	90	E-11
PC100F5	100	500	1.35	100	E-11
PC100F6	100	600	1.50	110	E-11

## PD-F



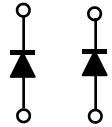
E-31

PD50F2	50	200	1.00	80	E-10
PD50F4	50	400	1.20	80	E-10
PD50F5	50	500	1.35	90	E-10
PD50F6	50	600	1.50	100	E-10
PD100F2	100	200	1.00	90	E-11
PD100F5	100	500	1.35	100	E-11
PD100F6	100	600	1.50	110	E-11
PD100F12	100	1200	2.60	250	E-23
PD300F12	300	1200	2.60	250	E-31


# Fast Recovery Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	trr (ns)	Case Outline
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**P2H-F**



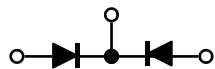
E-38

P2H30F2	30	200	1.08	50	E-38
P2H30F4	30	400	1.33	60	E-38
P2H30F6	30	600	1.70	60	E-38
P2H60F2	60	200	1.08	50	E-38
P2H60F4	60	400	1.33	60	E-38
 P2H60F6	60	600	1.70	60	E-38
P2H80F2	80	200	1.05	50	E-38
P2H80F4	80	400	1.31	60	E-38

# Schottky Barrier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
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## PC-Q



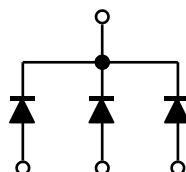
Non-Insulated Package



E-12

	PC60QL03N	60	30	0.50	E-12
	PC60Q04N	60	40	0.58	E-12
	PC80QL03N	80	30	0.46	E-12
	PC80Q04N	80	40	0.52	E-12





## PE-Q



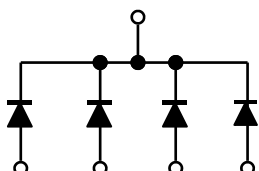
Non-Insulated Package



E-13

	PE60QL03N	60	30	0.50	E-13
	PE60Q04N	60	40	0.58	E-13
	PE80QL03N	80	30	0.46	E-13
	PE80Q04N	80	40	0.52	E-13

## PQ-Q



Non-Insulated Package



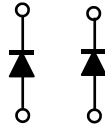
E-14

	PQ160QH04N	160	40	0.58	E-14
	PQ160QH06N	160	60	0.62	E-14

# Schottky Barrier Diode

Part Number	$I_{F(AV)}$ (A)	$V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
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**P2H-Q**



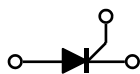
E-38

P2H30QH10	30	100	1.0	E-38
P2H30QH15	30	150	1.05	E-38
P2H30QH20	30	200	1.09	E-38
P2H60QH10	60	100	1.0	E-38
P2H60QH15	60	150	1.05	E-38
P2H60QH20	60	200	1.09	E-38
P2H80QH10	80	100	0.97	E-38
P2H80QH15	80	150	1.02	E-38
P2H80QH20	80	200	1.05	E-38

# Thyristor

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PHT**



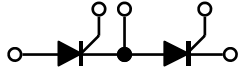
E-35

	PHT308C	30	800	1.50	E-38
	PHT608C	60	800	1.43	E-38
<i>New</i>	PHT2508	250	800	1.38	E-42
<i>New</i>	PHT250N8	250	800	1.43	E-42
	PHT25012	250	1200	1.38	E-42
	PHT25016	250	1600	1.38	E-42
<i>New</i>	PHT250N16	250	1600	1.50	E-42
	PHT4008	400	800	1.35	E-35
<i>New</i>	PHT400N8	400	800	1.43	E-35
	PHT40012	400	1200	1.52	E-35
	PHT40016	400	1600	1.52	E-35
<i>New</i>	PHT400N16	400	1600	1.55	E-35

# Thyristor

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PDT**



E-3

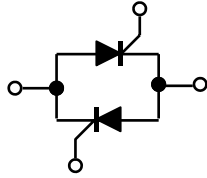
		PDT308	30	800	1.45	E-2
		PDT3012	30	1200	1.5	E-3
		PDT3016	30	1600	1.5	E-3
		PDT608	60	800	1.38	E-2
		PDT6012	60	1200	1.45	E-3
		PDT6016	60	1600	1.45	E-3
		PDT1008	100	800	1.38	E-2
		PDT10012	100	1200	1.38	E-3
		PDT10016	100	1600	1.38	E-3
		PDT1508	150	800	1.28	E-5
		PDT1518	150	800	1.38	E-44
		PDT15012	150	1200	1.38	E-5
		PDT15016	150	1600	1.38	E-5
		PDT15116	150	1600	1.38	E-44
		PDT2008	200	800	1.34	E-5
		PDT2018	200	800	1.34	E-44
		PDT20012	200	1200	1.28	E-5
		PDT20016	200	1600	1.28	E-5
		PDT20116	200	1600	1.4	E-44
		PDT4008	400	800	1.35	E-34
New		PDT400N8	400	800	1.43	E-34
		PDT40012	400	1200	1.52	E-34
		PDT40016	400	1600	1.52	E-34
New		PDT400N16	400	1600	1.55	E-34



# Thyristor

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PAT**



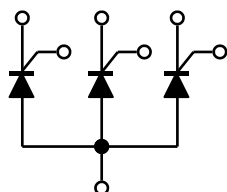
E-3

	PAT308	30	800	1.45	E-2
	PAT308AC	30	800	1.45	E-3
	PAT3012	30	1200	1.50	E-3
	PAT3016	30	1600	1.50	E-3
	PAT608	60	800	1.38	E-2
	PAT608AC	60	800	1.38	E-3
	PAT6012	60	1200	1.45	E-3
	PAT6016	60	1600	1.45	E-3
	PAT1008	100	800	1.38	E-2
	PAT1008AC	100	800	1.38	E-3
	PAT10012	100	1200	1.38	E-3
	PAT10016	100	1600	1.38	E-3
	PAT1508	150	800	1.28	E-37
	PAT15012	150	1200	1.38	E-37
	PAT15016	150	1600	1.38	E-37
	PAT2008	200	800	1.34	E-37
	PAT20012	200	1200	1.28	E-37
	PAT20016	200	1600	1.28	E-37
	PAT4008	400	800	1.35	E-34
New	PAT400N8	400	800	1.43	E-34
	PAT40012	400	1200	1.52	E-34
	PAT40016	400	1600	1.52	E-34
New	PAT400N16	400	1600	1.55	E-34

# Thyristor

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PFT**



Non-Insulated Package



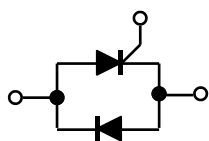
E-6

	PFT814N	80	400	1.2	E-3
	PFT903N	90	300	1.58	E-20
	PFT906N	90	600	1.58	E-20
	PFT1014N	100	400	1.2	E-3
	PFT1303N	130	300	1.28	E-20
	PFT1306N	130	600	1.28	E-20
	PFT1503N	150	300	1.28	E-6
	PFT1514N	150	400	1.28	E-44
	PFT1506N	150	600	1.28	E-6
	PFT2004N	200	400	1.3	E-6
	PFT2014N	200	400	1.19	E-44

# Thyristor and Diode

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PAH**



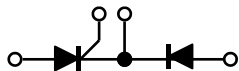
E-3

	PAH308	30	800	1.45	E-2
New	PAH30N8CM	30	800	1.31	E-66
	PAH3012	30	1200	1.50	E-3
	PAH3016	30	1600	1.50	E-3
New	PAH30N16CM	30	1600	1.34	E-66
	PAH608	60	800	1.38	E-2
New	PAH60N8CM	60	800	1.45	E-66
	PAH6012	60	1200	1.45	E-3
	PAH6016	60	1600	1.45	E-3
New	PAH60N16CM	60	1600	1.47	E-66
	PAH1008	100	800	1.38	E-2
New	PAH100N8CM	100	800	1.56	E-66
	PAH10012	100	1200	1.38	E-3
	PAH10016	100	1600	1.38	E-3
	PAH1508	150	800	1.28	E-37
	PAH15012	150	1200	1.38	E-37
	PAH15016	150	1600	1.38	E-37
	PAH2008	200	800	1.34	E-37
	PAH20012	200	1200	1.28	E-37
	PAH20016	200	1600	1.28	E-37
	PAH4008	400	800	1.35	E-34
New	PAH400N8	400	800	1.43	E-34
New	PAH400N16	400	1600	1.55	E-34

# Thyristor and Diode

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PCH**



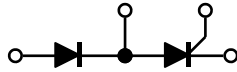
E-3

	PCH308	30	800	1.45	E-2
	PCH3012	30	1200	1.50	E-3
	PCH3016	30	1600	1.50	E-3
	PCH608	60	800	1.38	E-2
	PCH6012	60	1200	1.45	E-3
	PCH6016	60	1600	1.45	E-3
	PCH1008	100	800	1.38	E-2
	PCH10012	100	1200	1.38	E-3
	PCH10016	100	1600	1.38	E-3
	PCH1508	150	800	1.28	E-4
	PCH15012	150	1200	1.38	E-4
	PCH15016	150	1600	1.38	E-4
	PCH2008	200	800	1.34	E-4
	PCH20012	200	1200	1.28	E-4
	PCH20016	200	1600	1.28	E-4
	PCH4008	400	800	1.35	E-34
New	PCH400N8	400	800	1.43	E-34
New	PCH400N16	400	1600	1.55	E-34

# Thyristor and Diode

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PDH**



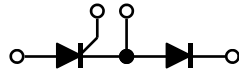
E-5

	PDH308	30	800	1.45	E-2
	PDH3012	30	1200	1.50	E-3
	PDH3016	30	1600	1.50	E-3
	PDH608	60	800	1.38	E-2
	PDH6012	60	1200	1.45	E-3
	PDH6016	60	1600	1.45	E-3
	PDH1008	100	800	1.38	E-2
	PDH10012	100	1200	1.38	E-3
	PDH10016	100	1600	1.38	E-3
	PDH1508	150	800	1.28	E-5
	PDH1518	150	800	1.38	E-44
	PDH15012	150	1200	1.38	E-5
	PDH15016	150	1600	1.38	E-5
	PDH15116	150	1600	1.38	E-44
	PDH2008	200	800	1.34	E-5
	PDH2018	200	800	1.34	E-44
	PDH20012	200	1200	1.28	E-5
	PDH20016	200	1600	1.28	E-5
	PDH20116	200	1600	1.4	E-44
	PDH4008	400	800	1.35	E-34
New	PDH400N8	400	800	1.43	E-34
	PDH40012	400	1200	1.52	E-34
	PDH40016	400	1600	1.52	E-34
New	PDH400N16	400	1600	1.55	E-34

# Thyristor and Diode

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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**PKH**



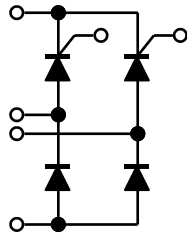
E-3

PKH308	30	800	E-2
PKH3012	30	1200	E-3
PKH3016	30	1600	E-3
PKH608	60	800	E-2
PKH6012	60	1200	E-3
PKH6016	60	1600	E-3
PKH1008	100	800	E-2
PKH10012	100	1200	E-3
PKH10016	100	1600	E-3




# Thyristor and Diode

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{TM}$ (V)	Case Outline
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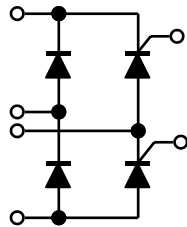
**PBH**




E-9

 PBH203	20	300	1.63	E-9
 PBH206	20	600	1.63	E-9
 PBH208	20	800	1.63	E-9

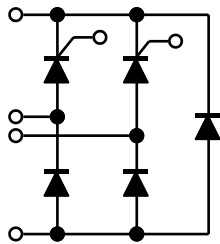
**PBH-A**






E-19

 PBH308AC	30	800	1.45	E-19
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**PBF**



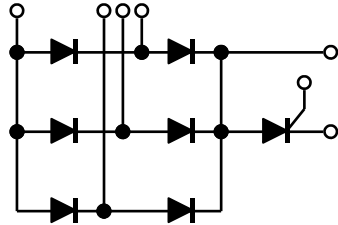
E-9

 PBF203	20	300	1.63	E-9
 PBF206	20	600	1.63	E-9
 PBF208	20	800	1.63	E-9













# Thyristor and Diode

Part Number	$I_{T(AV)}$ (A)	$V_{DRM}, V_{RRM}$ (V)	$V_{FM}$ (V)	Case Outline
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**PGH**



E-43

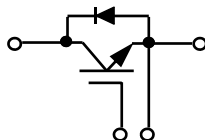
 PGH308	30	800	1.06	E-15
 PGH3016AM	30	1600	1.20	E-36
 PGH508AM	50	800	1.15	E-36
 PGH5016AM	50	1600	1.30	E-36
 PGH758AM	75	800	1.20	E-36
 PGH7516AM	75	1600	1.40	E-36
 PGH1008AM	100	800	1.16	E-36
 PGH10016AM	100	1600	1.20	E-36
 PGH1508AM	150	800	1.20	E-43
 PGH15016AM	150	1600	1.35	E-43
 PGH2008AM	200	800	1.20	E-43
 PGH20016AM	200	1600	1.35	E-43



# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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**PHMB**



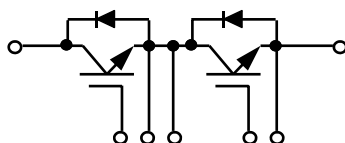
E-52

	PHMB50E6CL	50	600	2.6	E-38
	PHMB75E6CL	75	600	2.6	E-38
	PHMB100E6CL	100	600	2.6	E-38
	PHMB300E6	300	600	2.6	E-52
	PHMB400E6	400	600	2.6	E-52
	PHMB600E6	600	600	2.6	E-53
	PHMB600E6C	600	600	2.6	E-52
	PHMB800E6	800	600	2.6	E-53
	PHMB1200E6	1200	600	2.6	E-49
	PHMB50B12CL	50	1200	2.4	E-38
	PHMB200B12	200	1200	2.4	E-52
	PHMB200BS12	200	1200	2.7	E-52
	PHMB300B12	300	1200	2.4	E-52
	PHMB300BS12	300	1200	2.7	E-52
	PHMB400B12	400	1200	2.4	E-52
	PHMB400BS12	400	1200	2.7	E-52
	PHMB600B12	600	1200	2.4	E-53
	PHMB600BS12	600	1200	2.7	E-53
	PHMB600B12C	600	1200	2.4	E-52
	PHMB600BS12C	600	1200	2.7	E-52
	PHMB800B12	800	1200	2.4	E-53
	PHMB800BS12	800	1200	2.7	E-53
	PHMB1200B12	1200	1200	2.4	E-49

# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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**PDMB**



E-54

	PDMB50E6	50	600	2.6	E-54
	PDMB75E6	75	600	2.6	E-54
	PDMB100E6	100	600	2.6	E-54
	PDMB150E6	150	600	2.6	E-55
	PDMB150E6C	150	600	2.6	E-54
	PDMB200E6	200	600	2.6	E-55
	PDMB300E6	300	600	2.6	E-56
	PDMB300E6C	300	600	2.6	E-55
	PDMB400E6	400	600	2.6	E-56
	PDMB600E6	600	600	2.6	E-57
	PDMB600E6C	600	600	2.6	E-56
	PDMB800E6	800	600	2.6	E-50
	PDMB50B12	50	1200	2.4	E-54
	PDMB75B12	75	1200	2.4	E-55
	PDMB75B12C	75	1200	2.4	E-54
	PDMB100BS12	100	1200	2.7	E-55
	PDMB100B12C	100	1200	2.4	E-55
	PDMB100BS12C	100	1200	2.7	E-54
	PDMB100B12C2	100	1200	2.4	E-54
	PDMB150BS12	150	1200	2.7	E-55
	PDMB150B12C	150	1200	2.4	E-56
	PDMB150B12C2	150	1200	2.4	E-55

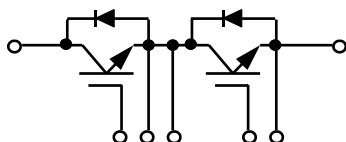
Continued on the following page.

# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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**PDMB**

*Continued*



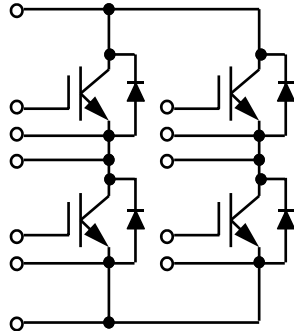
E-56

	PDMB200BS12	200	1200	2.7	E-56
	PDMB200B12C	200	1200	2.4	E-56
	PDMB200BS12C	200	1200	2.7	E-55
	PDMB200B12C2	200	1200	2.4	E-55
	PDMB300B12	300	1200	2.4	E-57
	PDMB300BS12	300	1200	2.7	E-57
	PDMB300B12C	300	1200	2.4	E-56
	PDMB300BS12C	300	1200	2.7	E-56
	PDMB400B12	400	1200	2.4	E-57
	PDMB400BS12	400	1200	2.7	E-57
	PDMB400B12C	400	1200	2.4	E-56
	PDMB400BS12C	400	1200	2.7	E-56
	PDMB600B12	600	1200	2.4	E-50
	PDMB600BS12	600	1200	2.7	E-50
	PDMB75B17	75	1700	2.7	E-55
	PDMB100B17	100	1700	2.7	E-56
	PDMB150B17	150	1700	2.7	E-56
	PDMB200B17	200	1700	2.7	E-57
	PDMB300B17	300	1700	2.7	E-50
	PDMB400B17	400	1700	2.7	E-50

# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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**PBMB**



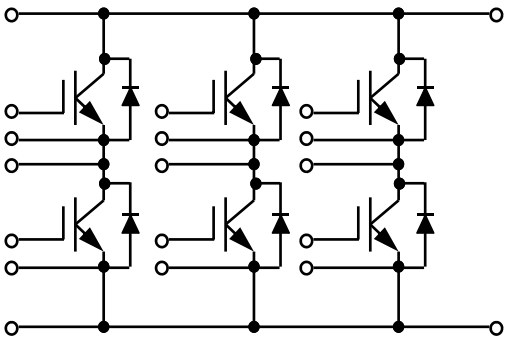
E-41

	PBMB50E6	50	600	2.6	E-32
	PBMB75E6	75	600	2.6	E-40
	PBMB100E6	100	600	2.6	E-40
	PBMB150E6	150	600	2.6	E-40
	PBMB200E6	200	600	2.6	E-41
	PBMB50B12	50	1200	2.4	E-32
	PBMB75B12	75	1200	2.4	E-40
	PBMB100B12	100	1200	2.4	E-41
	PBMB150B12	150	1200	2.4	E-41
	PBMB200B12	200	1200	2.4	E-41

# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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## PTMB



E-46



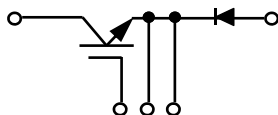
E-33

	PTMB50E6	50	600	2.6	E-32
	PTMB50E6C	50	600	2.6	E-46
	PTMB75E6	75	600	2.6	E-33
	PTMB75E6C	75	600	2.6	E-47
	PTMB100E6	100	600	2.6	E-33
	PTMB100E6C	100	600	2.6	E-47
	PTMB150E6	150	600	2.6	E-33
	PTMB150E6C	150	600	2.6	E-47
	PTMB50B12	50	1200	2.4	E-33
	PTMB50B12C	50	1200	2.4	E-46
	PTMB75B12	75	1200	2.4	E-33
	PTMB75B12C	75	1200	2.4	E-47
	PTMB100B12	100	1200	2.4	E-33
	PTMB100B12C	100	1200	2.4	E-47

# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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**PCHMB**



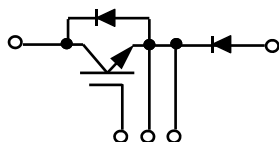
E-55

	PCHMB50E6	50	600	2.6	E-54
	PCHMB75E6	75	600	2.6	E-54
	PCHMB100E6	100	600	2.6	E-54
	PCHMB150E6	150	600	2.6	E-55
	PCHMB150E6C	150	600	2.6	E-54
	PCHMB200E6	200	600	2.6	E-55
	PCHMB300E6	300	600	2.6	E-56
	PCHMB300E6C	300	600	2.6	E-55
	PCHMB400E6	400	600	2.6	E-56
	PCHMB600E6	600	600	2.6	E-57
	PCHMB600E6C	600	600	2.6	E-56
	PCHMB50B12	50	1200	2.4	E-54
	PCHMB75B12	75	1200	2.4	E-54
	PCHMB100B12	100	1200	2.4	E-54
	PCHMB150B12	150	1200	2.4	E-55
	PCHMB200B12	200	1200	2.4	E-55
	PCHMB300B12	300	1200	2.4	E-56
	PCHMB400B12	400	1200	2.4	E-56



















# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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**PCFMB  
PCHMB-A**



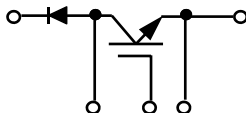
E-54

	PCFMB50E6	50	600	2.6	E-54
	PCFMB75E6	75	600	2.6	E-54
	PCFMB100E6	100	600	2.6	E-54
	PCFMB150E6	150	600	2.6	E-55
	PCFMB150E6C	150	600	2.6	E-54
	PCFMB200E6	200	600	2.6	E-55
	PCFMB300E6	300	600	2.6	E-56
	PCFMB300E6C	300	600	2.6	E-55
	PCFMB400E6	400	600	2.6	E-56
	PCFMB600E6	600	600	2.6	E-57
	PCFMB600E6C	600	600	2.6	E-56
	PCHMB50B12A	50	1200	2.4	E-54
	PCHMB75B12A	75	1200	2.4	E-54
	PCHMB100B12A	100	1200	2.4	E-54
	PCHMB150B12A	150	1200	2.4	E-55
	PCHMB200B12A	200	1200	2.4	E-55
	PCHMB300B12A	300	1200	2.4	E-56
	PCHMB400B12A	400	1200	2.4	E-56

# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	$V_{CE(sat)}$ (V)	Case Outline
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**PRHMB**



E-55

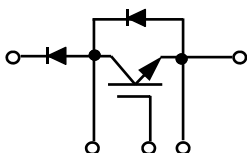
	PRHMB50E6	50	600	2.6	E-54
	PRHMB75E6	75	600	2.6	E-54
	PRHMB100E6	100	600	2.6	E-54
	PRHMB150E6	150	600	2.6	E-55
	PRHMB150E6C	150	600	2.6	E-54
	PRHMB200E6	200	600	2.6	E-55
	PRHMB300E6	300	600	2.6	E-56
	PRHMB300E6C	300	600	2.6	E-55
	PRHMB400E6	400	600	2.6	E-56
	PRHMB600E6	600	600	2.6	E-57
	PRHMB600E6C	600	600	2.6	E-56
	PRHMB50B12	50	1200	2.4	E-54
	PRHMB75B12	75	1200	2.4	E-54
	PRHMB100B12	100	1200	2.4	E-54
	PRHMB150B12	150	1200	2.4	E-55
	PRHMB200B12	200	1200	2.4	E-55
	PRHMB300B12	300	1200	2.4	E-56
	PRHMB400B12	400	1200	2.4	E-56



# IGBT

Part Number	$I_C$ (A)	$V_{CES}$ (V)	Case Outline
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**PRFMB  
PRHMB-A**











E-56

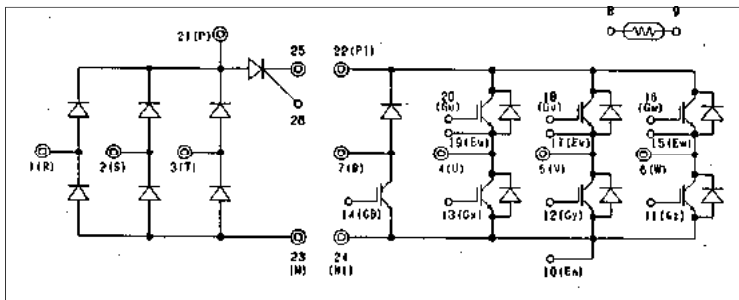
	PRFMB50E6	50	600	2.6	E-54
	PRFMB75E6	75	600	2.6	E-54
	PRFMB100E6	100	600	2.6	E-54
	PRFMB150E6	150	600	2.6	E-55
	PRFMB150E6C	150	600	2.6	E-54
	PRFMB200E6	200	600	2.6	E-55
	PRFMB300E6	300	600	2.6	E-56
	PRFMB300E6C	300	600	2.6	E-55
	PRFMB400E6	400	600	2.6	E-56
	PRFMB600E6	600	600	2.6	E-57
	PRFMB600E6C	600	600	2.6	E-56
	PRHMB50B12A	50	1200	2.4	E-54
	PRHMB75B12A	75	1200	2.4	E-54
	PRHMB100B12A	100	1200	2.4	E-54
	PRHMB150B12A	150	1200	2.4	E-55
	PRHMB200B12A	200	1200	2.4	E-55
	PRHMB300B12A	300	1200	2.4	E-56
	PRHMB400B12A	400	1200	2.4	E-56

# PIM

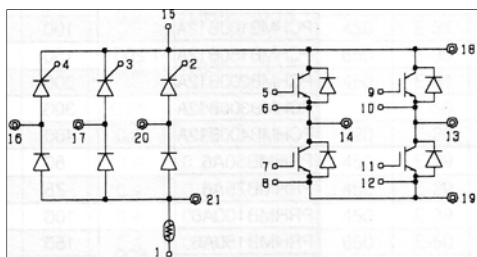
Part Number	$I_C, I_o(A)$	$V_{CES} (V)$	Inverter Output	Case Outline
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## PVD

 PVD55-6	50	600	5.5kW	E-48
 PVD55-12	25	1200	5.5kW	E-48
 PVD75-6	75	600	7.5kW	E-48
 PVD75-12	50	1200	7.5kW	E-48
 PVD110-6	100	600	11kW	E-48
 PVD110-12	50	1200	11kW	E-48
 PVD150-6	150	600	15kW	E-48
 PVD150-12	75	1200	15kW	E-48
PVD30-8	50	600	3kW	E-46



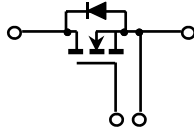
PVD30-8



# MOSFET

Part Number	$I_D$ (A)	$V_{DSS}$ (V)	$R_{DS(on)}$ ( $\Omega$ )	Case Outline
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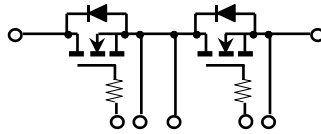
## PHM










E-45

 PHM5601	560	150	0.002	E-45
 PHM8001	800	150	0.0014	E-45

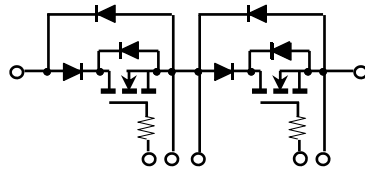
## PDM-L














E-21

 PD4M440L	30	500	0.21	E-21
 PD4M441L	30	450	0.21	E-21
 PD7M440L	50	500	0.12	E-21
 PD7M441L	50	450	0.12	E-21
 PD10M440L	70	500	0.085	E-21
 PD10M441L	70	450	0.085	E-21
 PDM5001	500	100	0.00056	E-59

## PDM-H



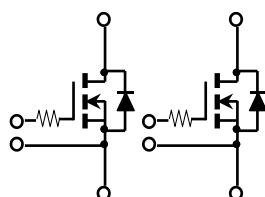
E-21

 PD4M440H	30	500	0.21	E-21
 PD4M441H	30	450	0.21	E-21
 PD7M440H	50	500	0.12	E-21
 PD7M441H	50	450	0.12	E-21
 PD10M440H	85	500	0.085	E-21
 PD10M441H	85	450	0.085	E-21
 PDM505HA	50	500	0.12	E-23
 PDM505HC	50	500	0.12	E-27
 PDM755HA	75	500	0.076	E-23
 PDM1102H	110	250	0.033	E-23
 PDM1405HA	140	500	0.04	E-31







# MOSFET

Part Number	$I_D$ (A)	$V_{DSS}$ (V)	$R_{DS(on)}$ ( $\Omega$ )	Case Outline
-------------	-----------	---------------	---------------------------	--------------

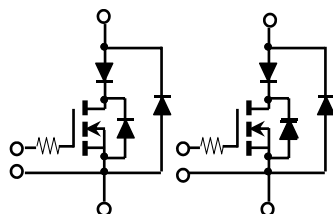
## P2HM-L












E-22

 P2H4M440L	30	500	0.21	E-22
 P2H4M441L	30	450	0.21	E-22
 P2H7M440L	50	500	0.12	E-22
 P2H7M441L	50	450	0.12	E-22
 P2H10M440L	70	500	0.085	E-22
 P2H10M441L	70	450	0.085	E-22

## P2HM-H



E-22

 P2H4M440H	30	500	0.21	E-22
 P2H4M441H	30	450	0.21	E-22
 P2H7M440H	50	500	0.12	E-22
 P2H7M441H	50	450	0.12	E-22
 P2H10M440H	85	500	0.085	E-22
 P2H10M441H	85	450	0.085	E-22
 P2HM505HA	50	500	0.12	E-22
 P2HM755HA	75	500	0.076	E-22
 P2HM1102H	110	250	0.033	E-22

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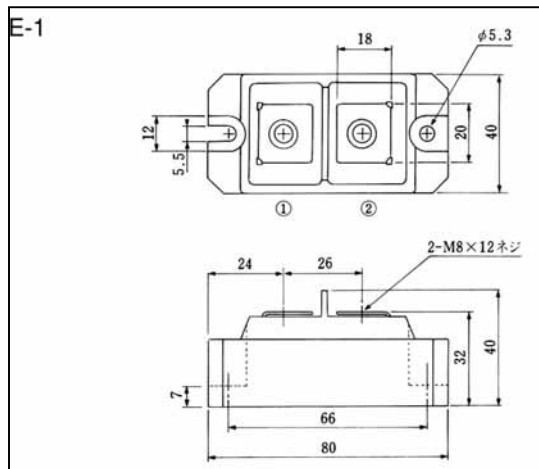


PACKAGES  
AND  
OUTLINES

# Outline

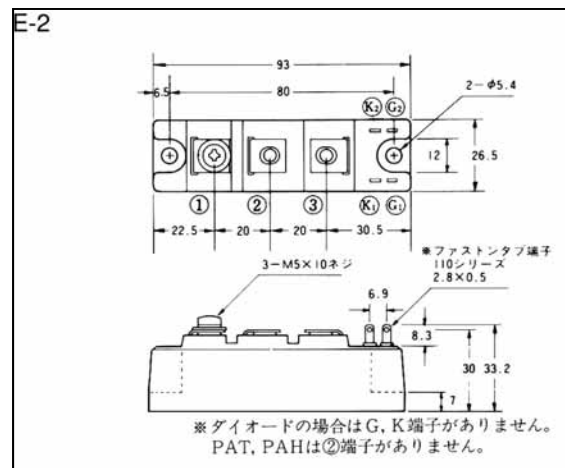


E-1



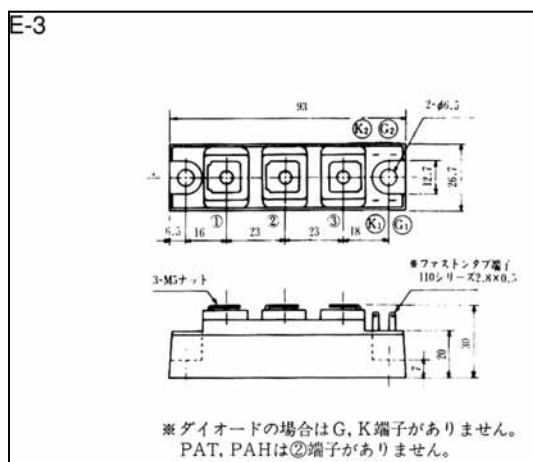
E-2

Diode modules have no G and K terminals.  
PAT and PAH have no center terminal.



E-3

Diode modules have no G and K terminals.  
PAT and PAH have no center terminal.

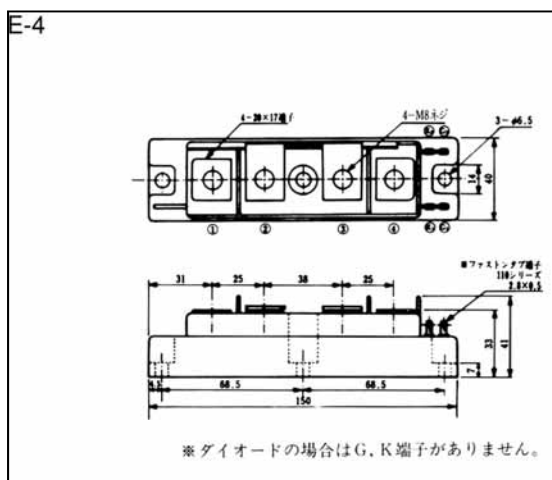


# Outline



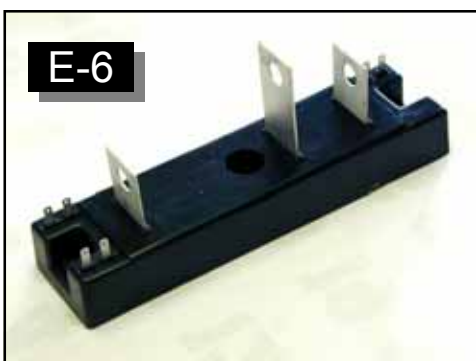
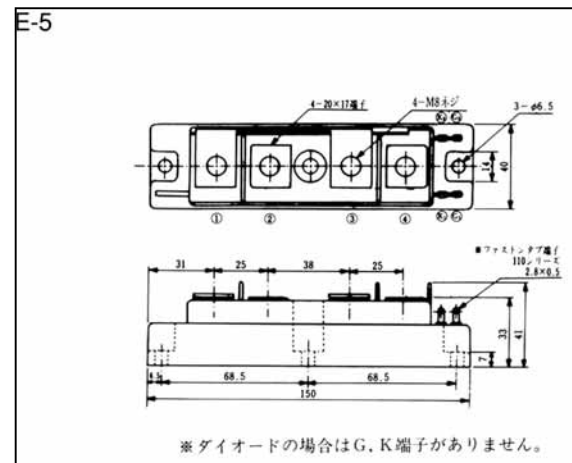
**E-4**

Diode modules have no G and K terminals.



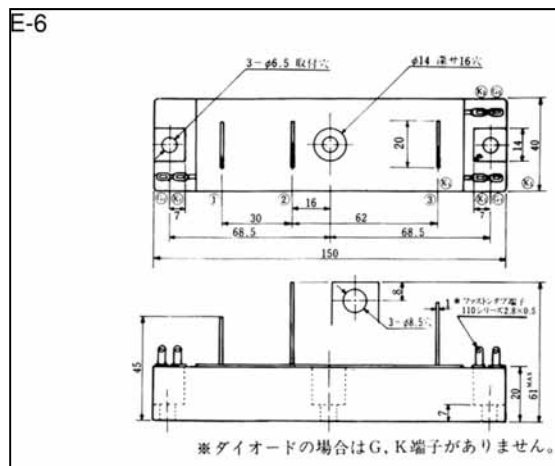
**E-5**

Diode modules have no G and K terminals.



**E-6**

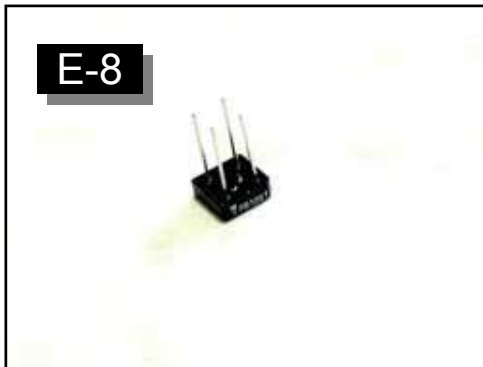
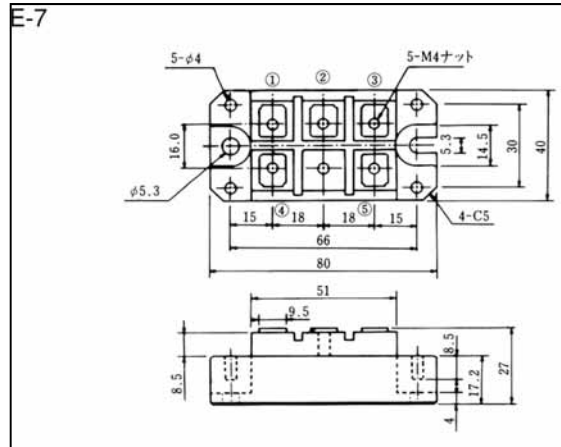
Diode modules have no G and K terminals.



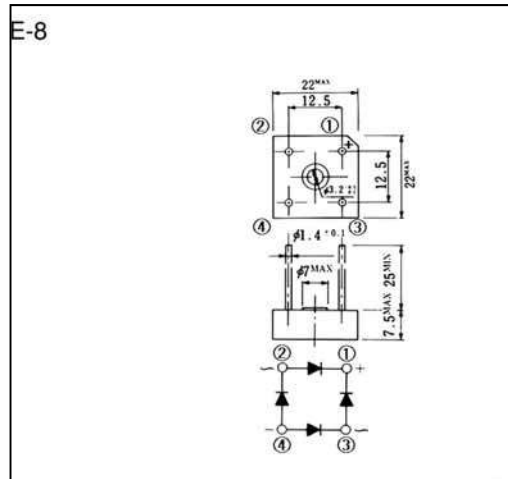
# Outline



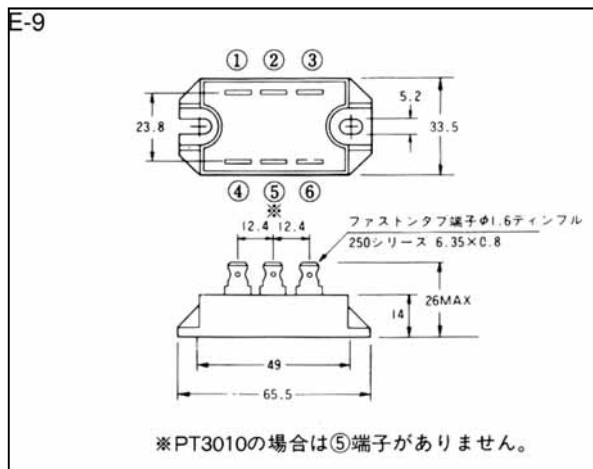
E-7



E-8



E-9

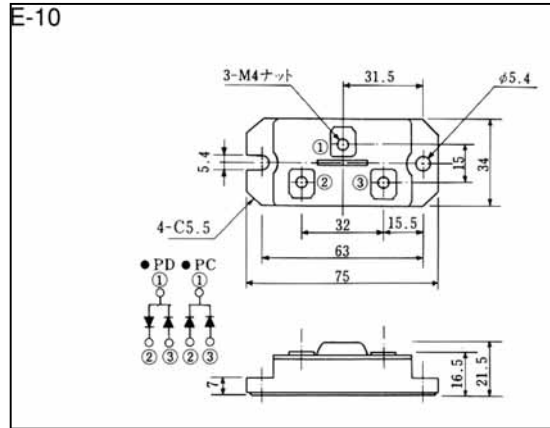




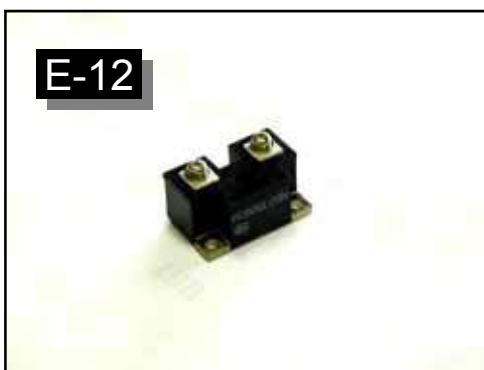
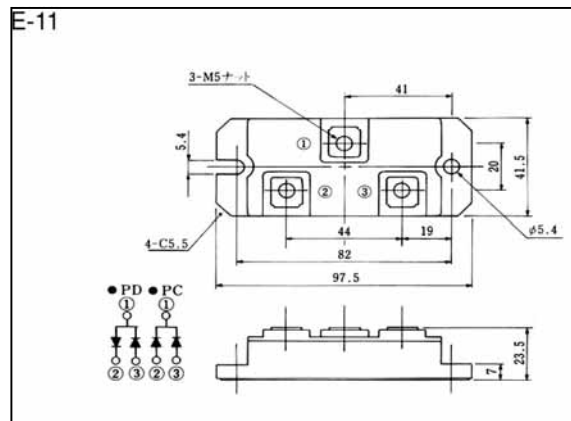
# Outline



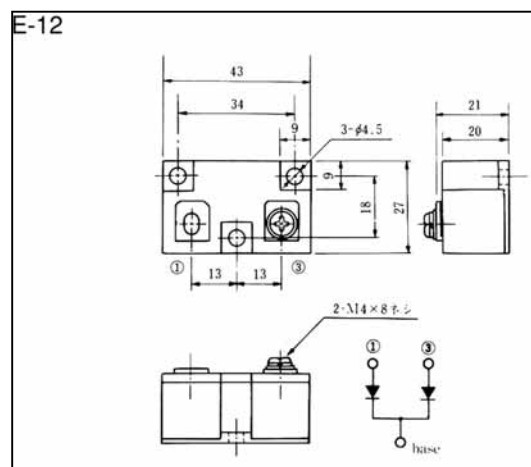
**E-10**



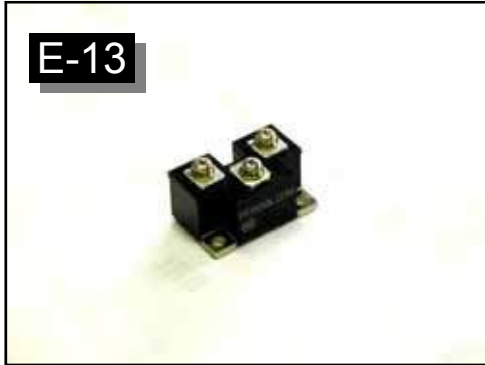
**E-11**



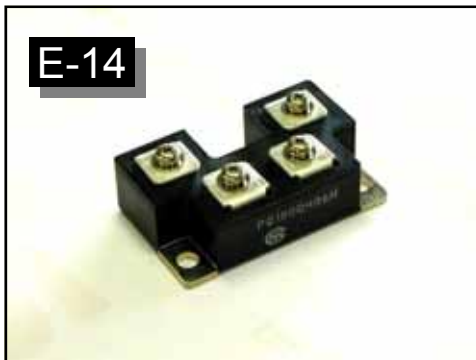
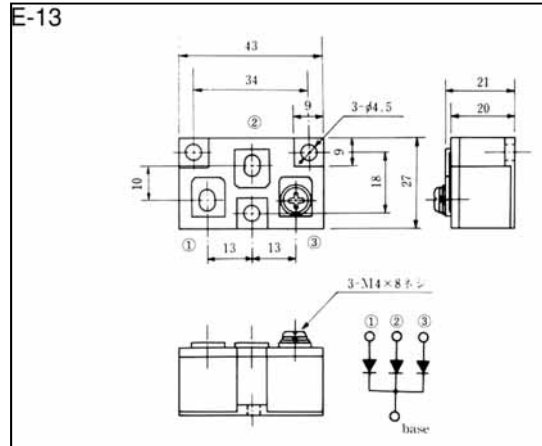
**E-12**



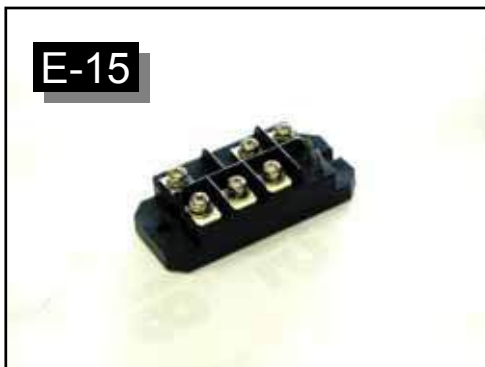
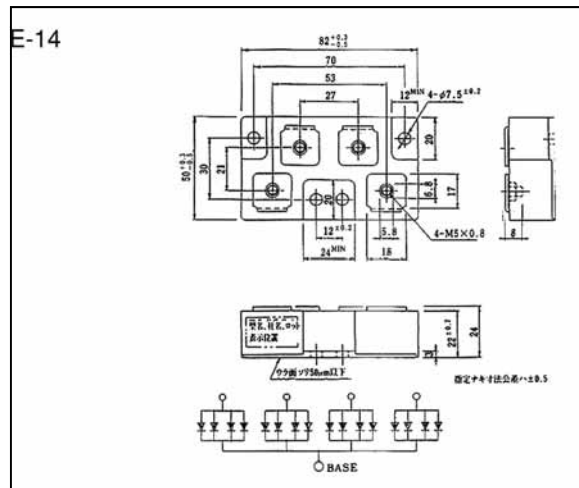
# Outline



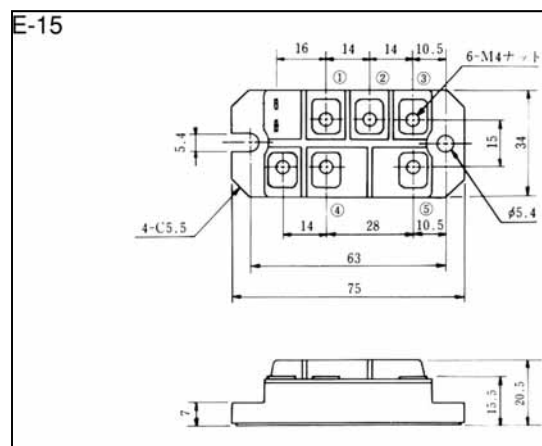
E-13



E-14



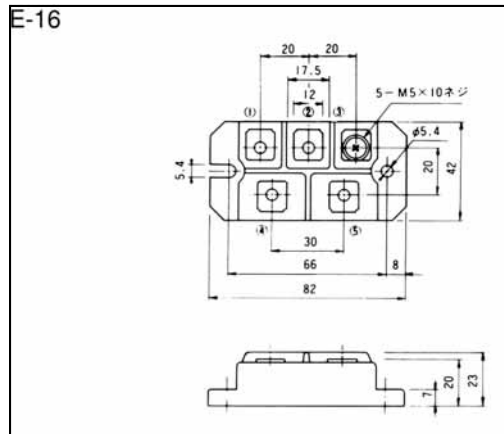
E-15



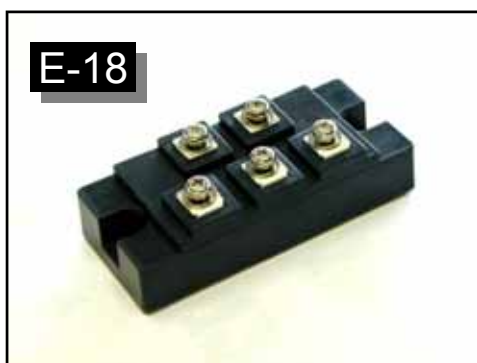
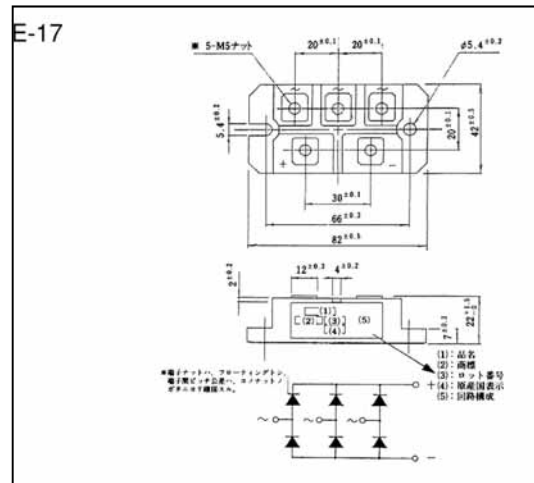
# Outline



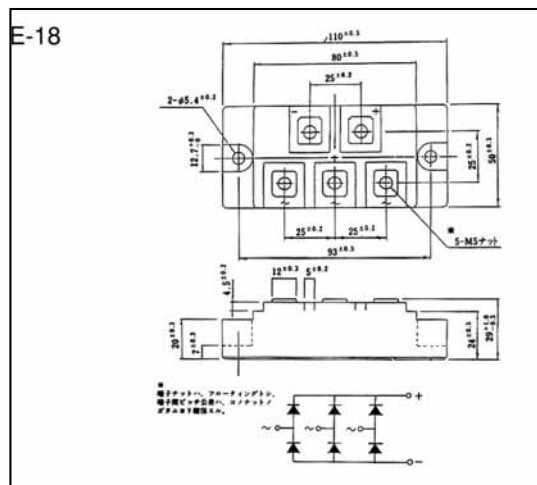
**E-16**



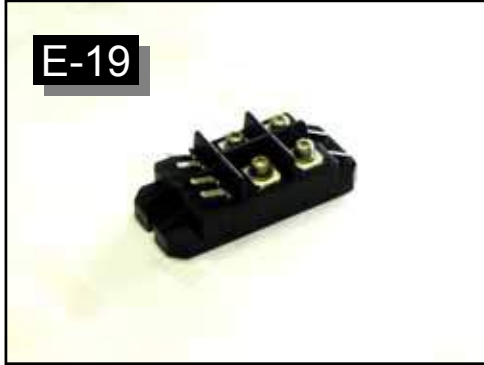
**E-17**



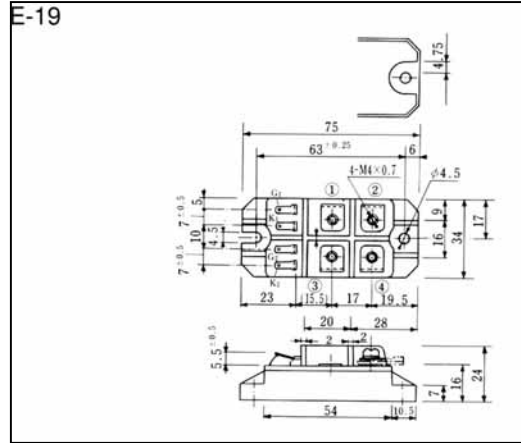
**E-18**



# Outline



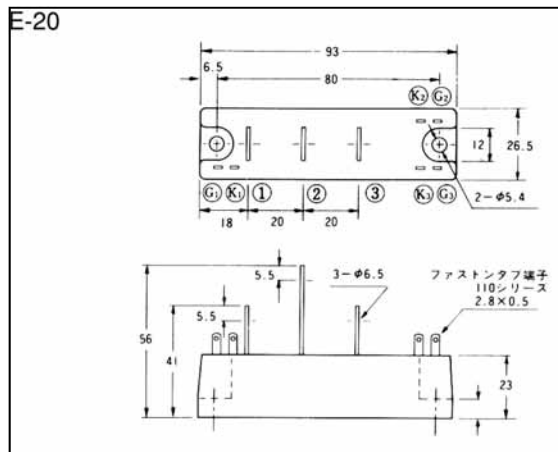
**E-19**



E-19



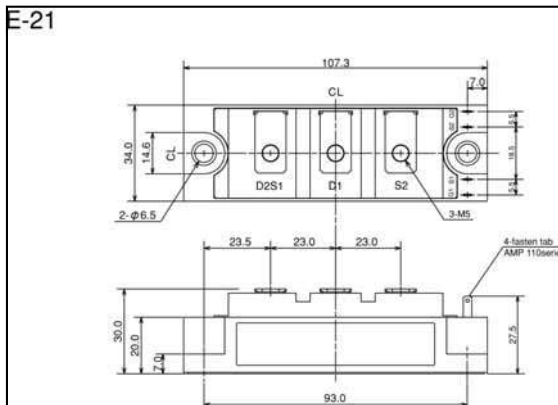
**E-20**



E-20



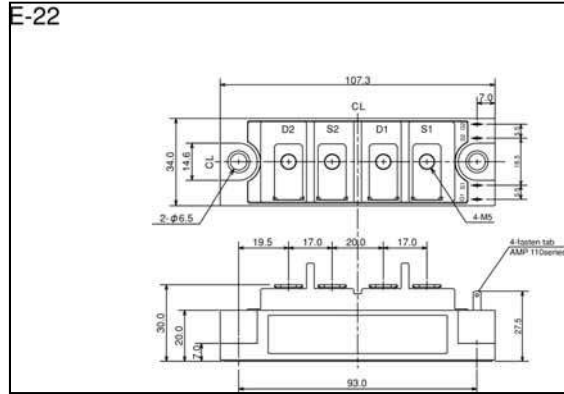
**E-21**



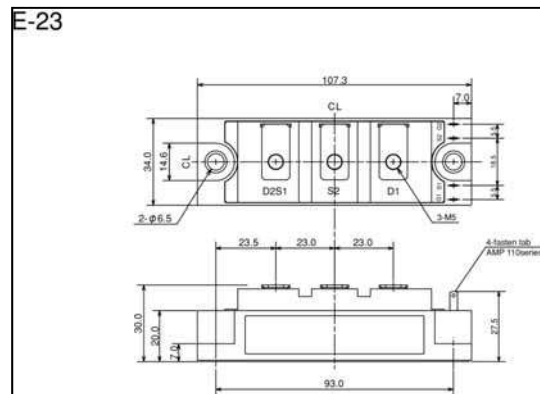
E-21

# Outline

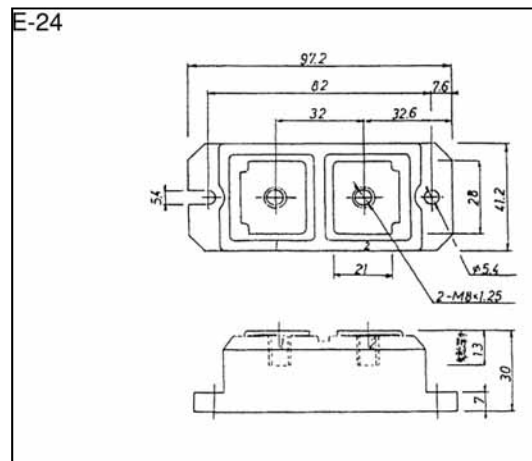
E-22



E-23



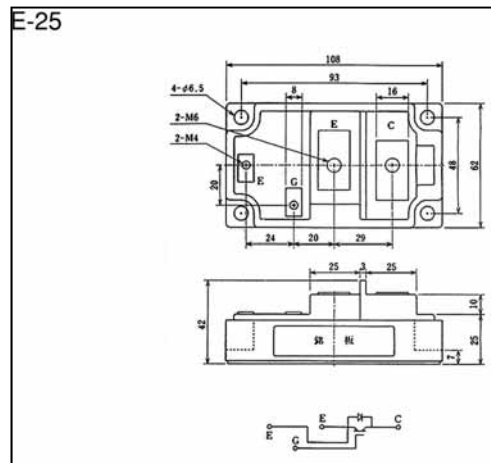
E-24



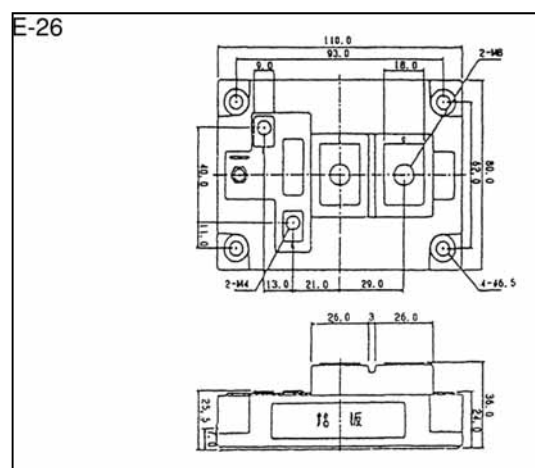
# Outline



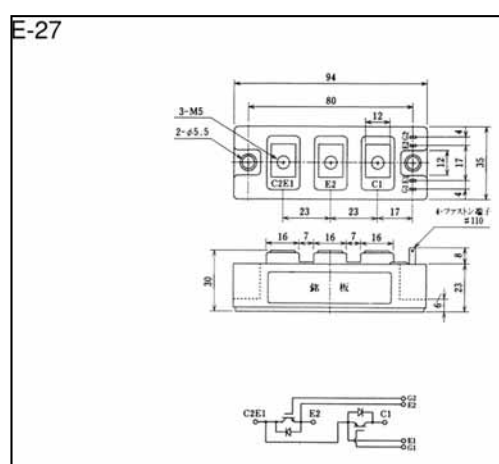
**E-25**



**E-26**



**E-27**







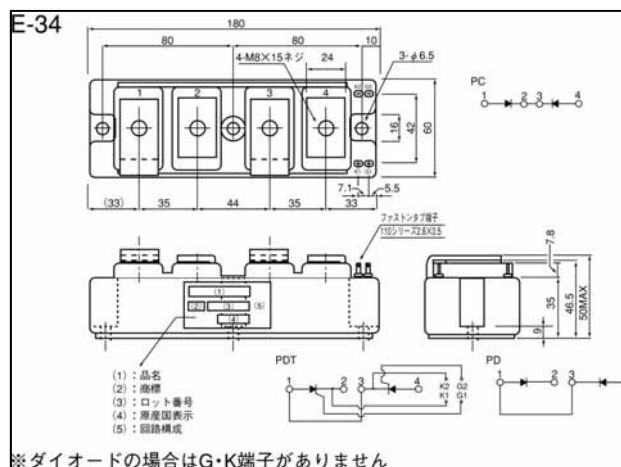


# Outline



**E-34**

Diode modules have no G and K terminals.

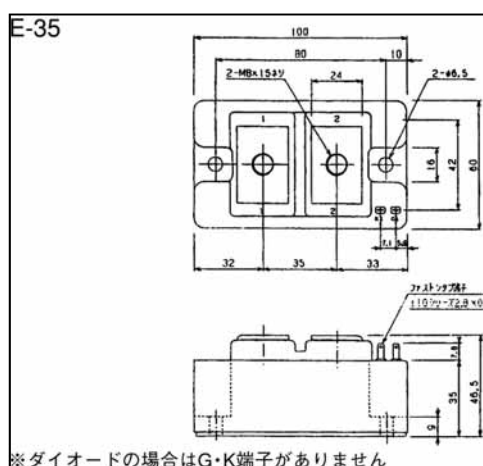


※ダイオードの場合はG・K端子がありません



**E-35**

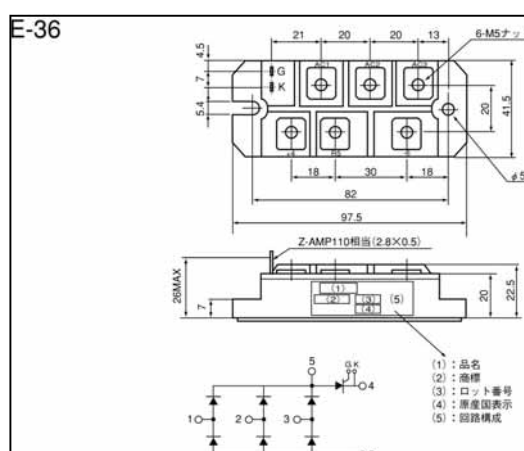
Diode modules have no G and K terminals.



※ダイオードの場合はG・K端子がありません



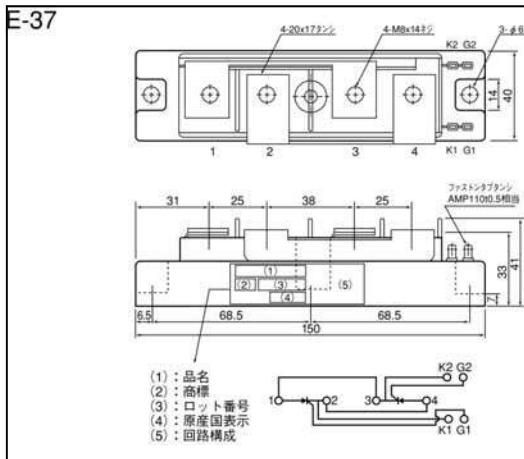
**E-36**



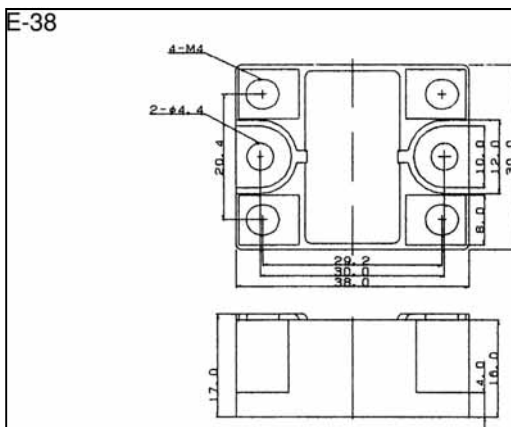
# Outline



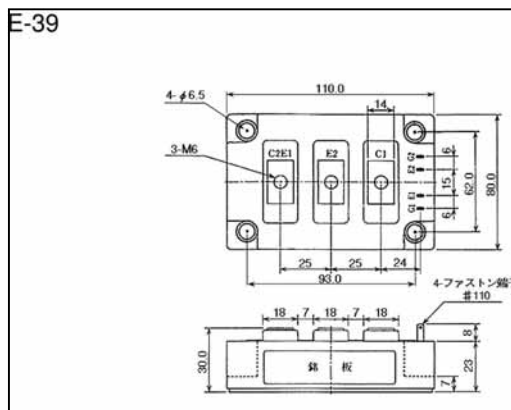
**E-37**



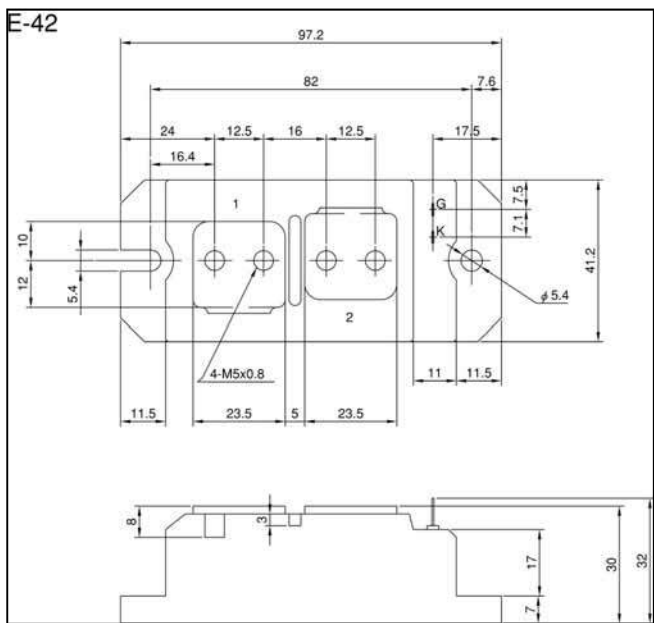
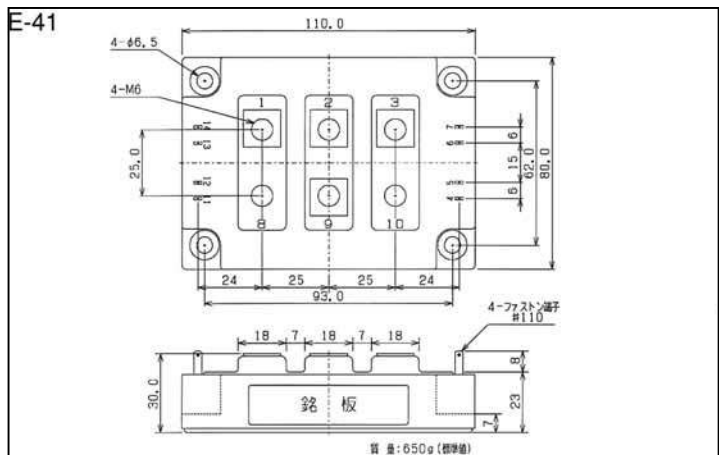
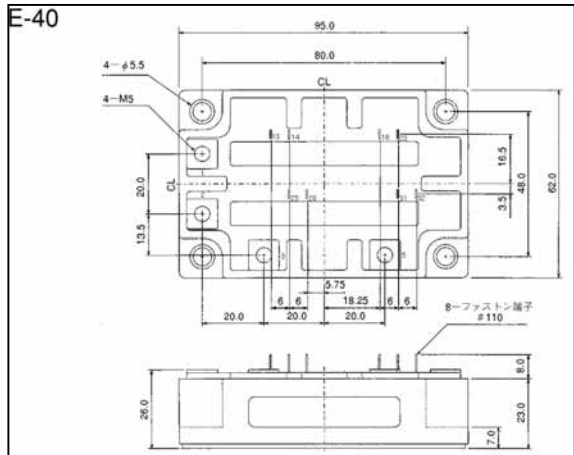
**E-38**



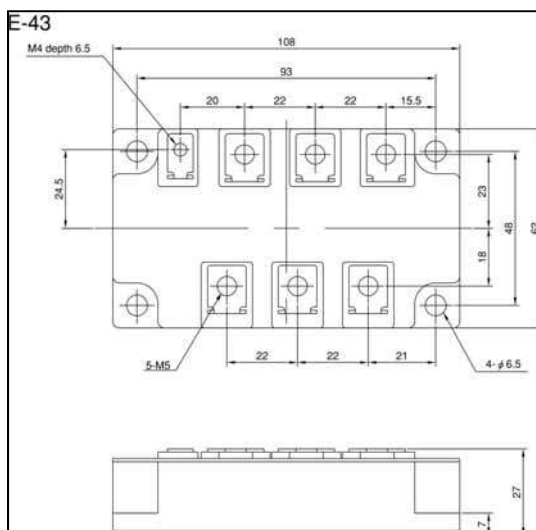
**E-39**



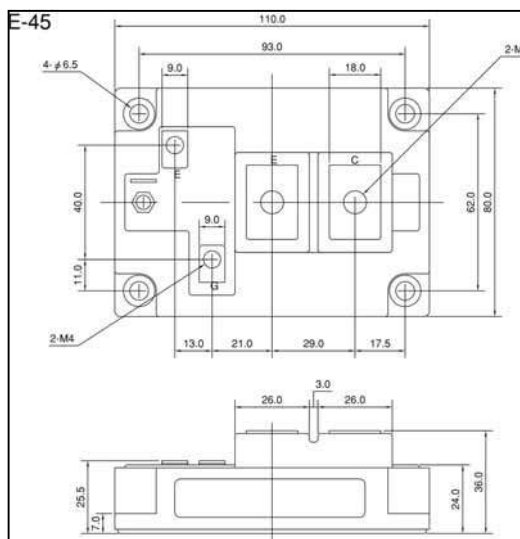
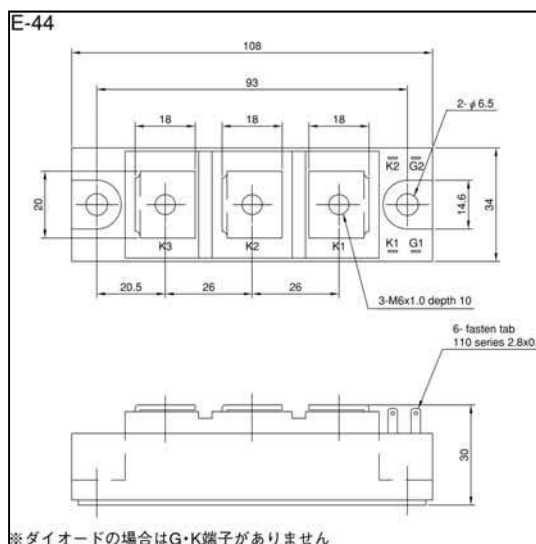
# Outline



# Outline



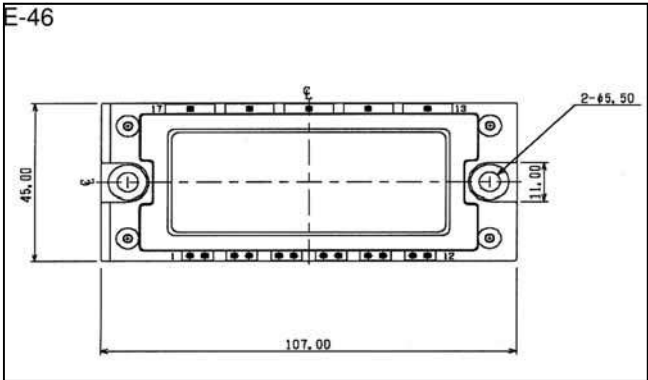
Diode modules have no G and K terminals.



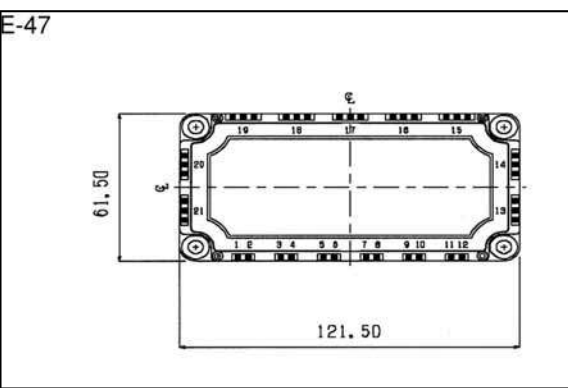
# Outline



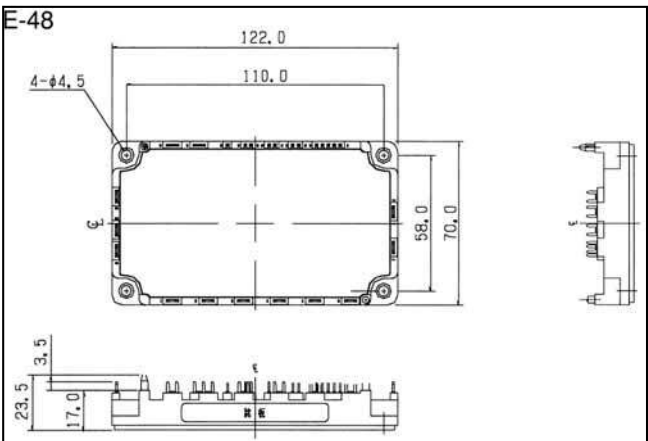
E-46



E-47

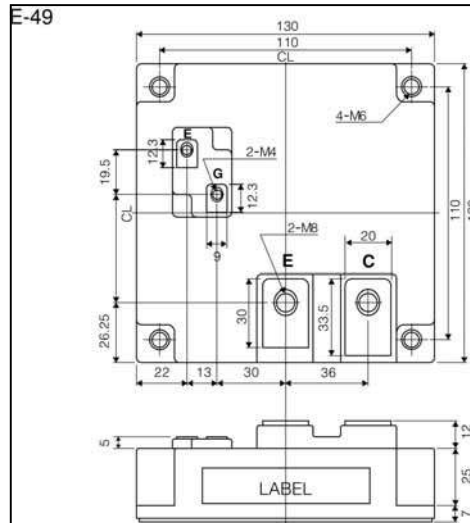


E-48

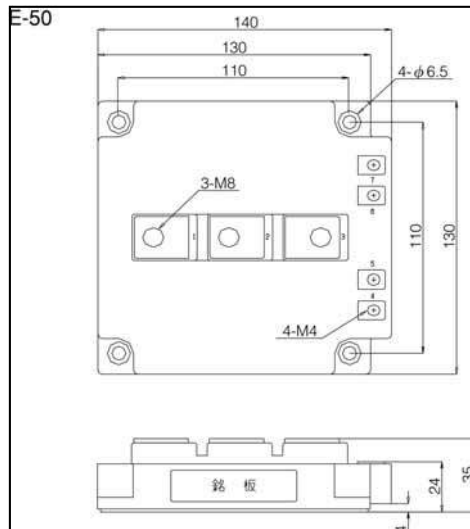
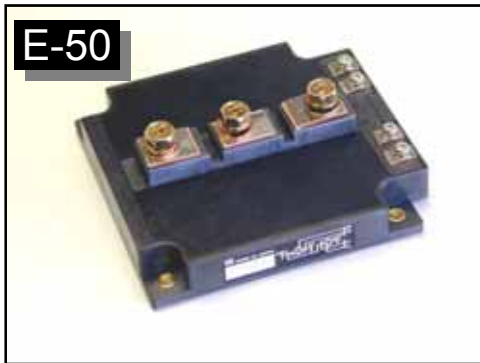


# Outline

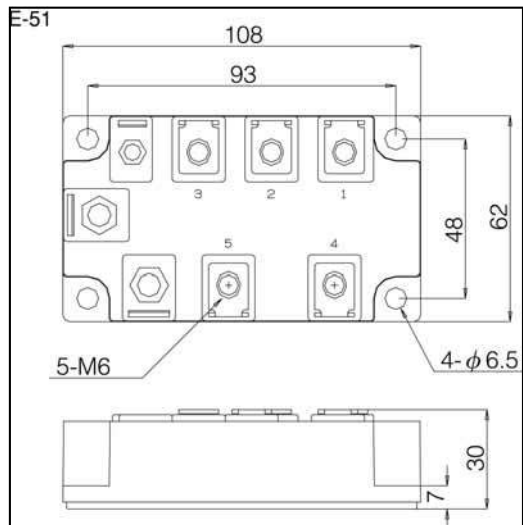
**E-49**



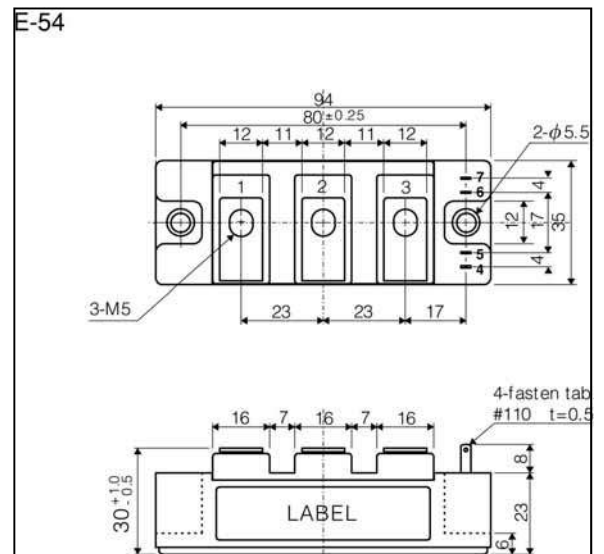
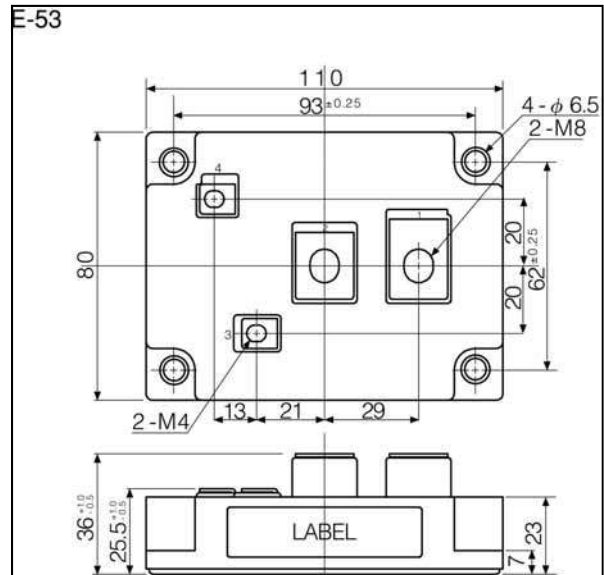
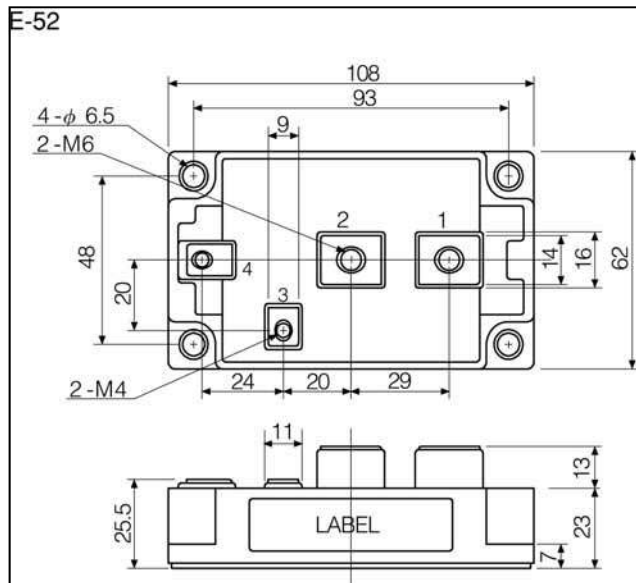
**E-50**



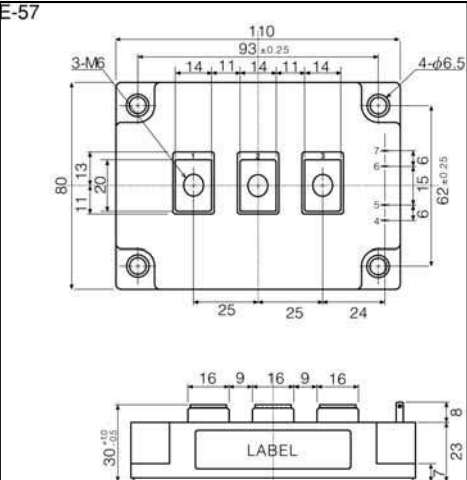
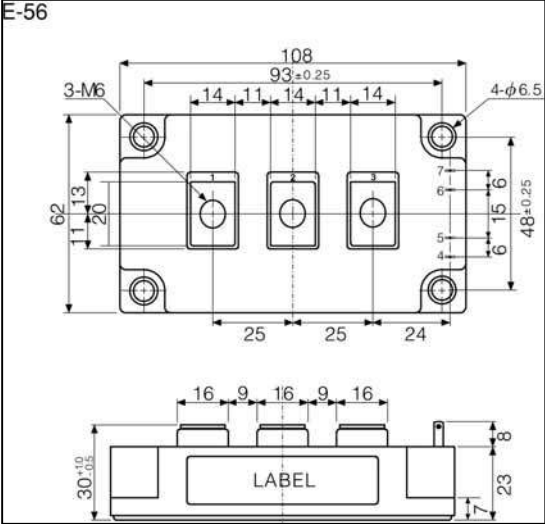
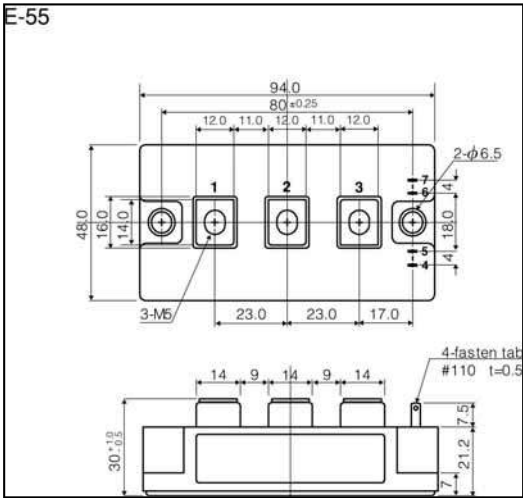
**E-51**



# Outline



# Outline

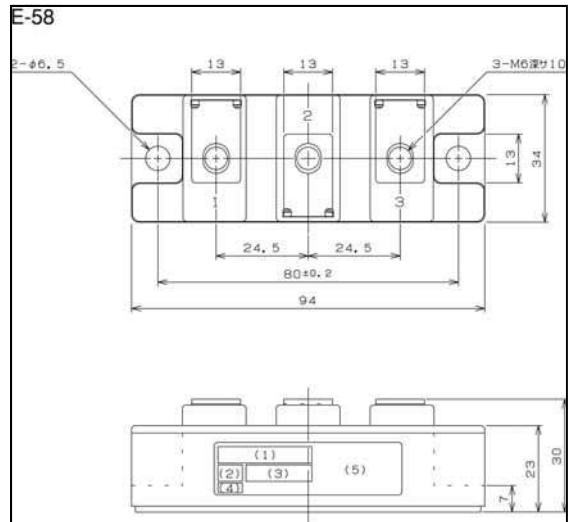




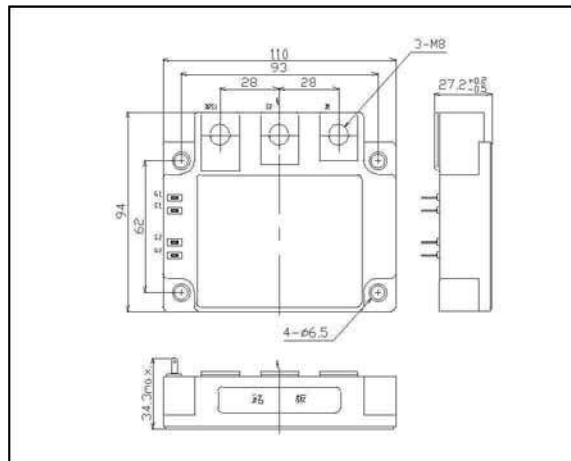
# Outline



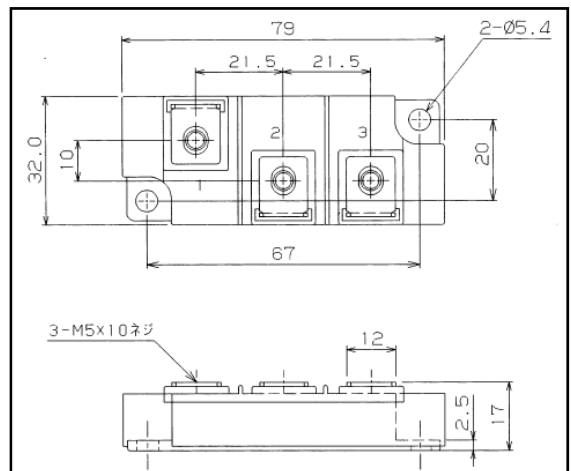
**E-58**



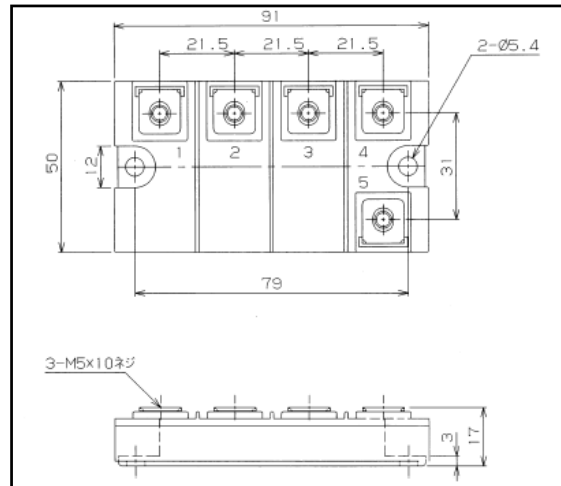
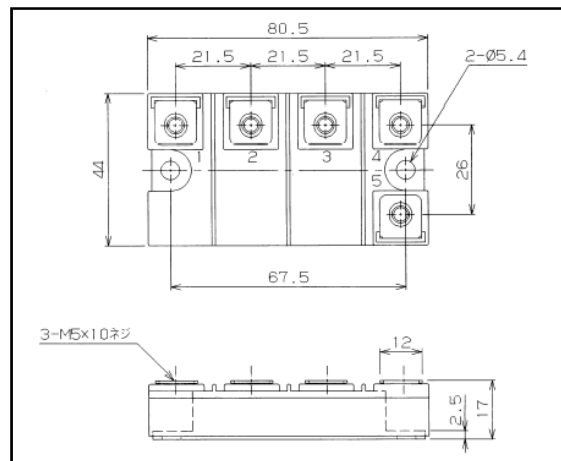
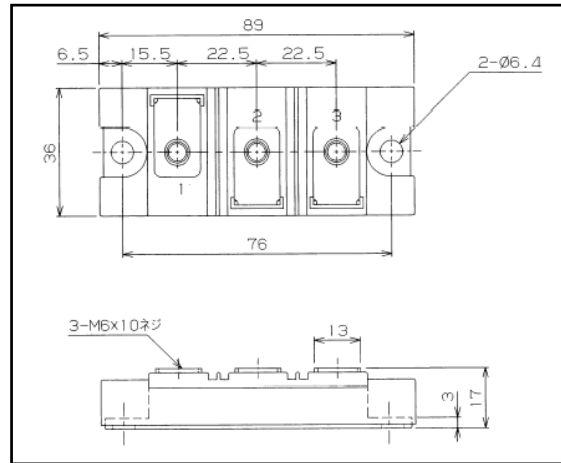
**E-59**



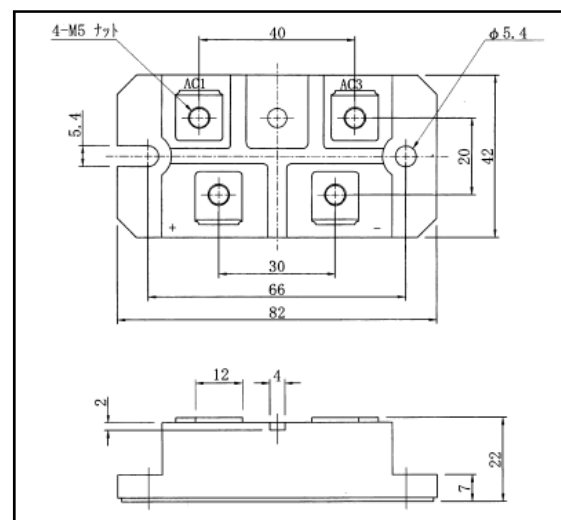
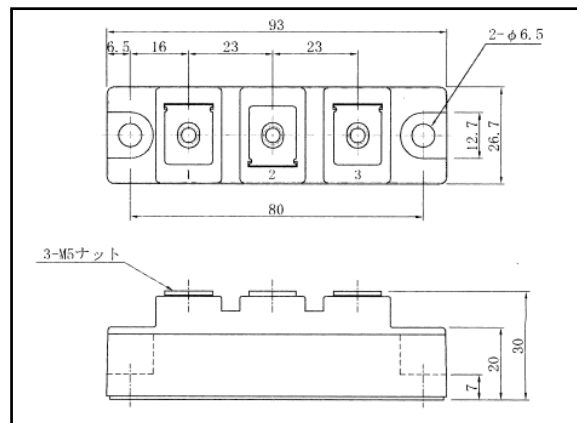
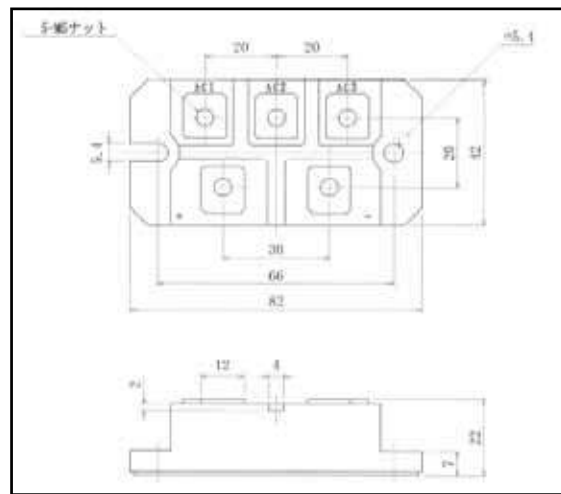
**E-60**



# Outline



# Outline

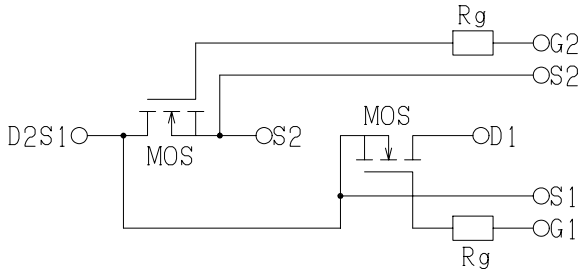


MOSFET Module-Dual

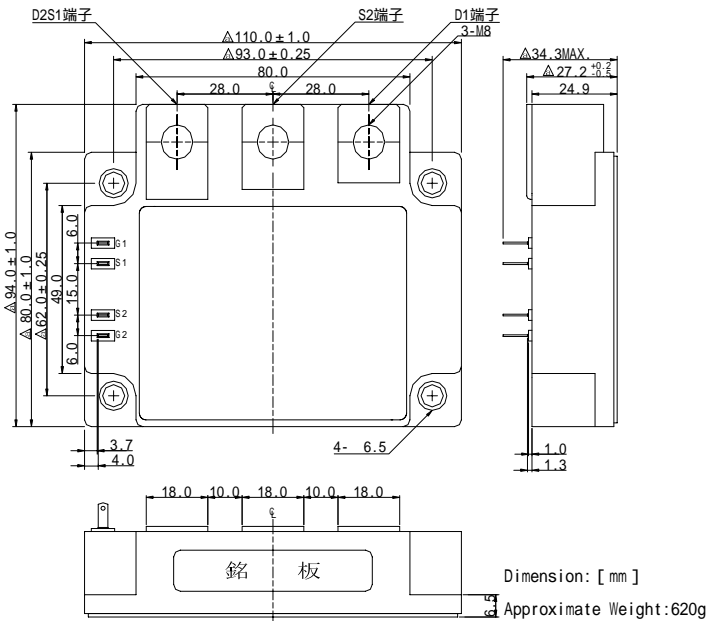
500 A, 100V

PDM5001

回路図 : CIRCUIT



外形寸法図 : OUTLINE DRAWING



最大定格 : MAXIMUM RATINGS (T<sub>c</sub> = 25 )

Item	Symbol	Test Condition	Rated Value	Unit
ドレイン・ソ - ス間電圧 Drain-Source Voltage	V <sub>DS</sub>	V <sub>GS</sub> = 0 V	100	V
ゲート・ソース間電圧 Gate-Source Voltage	V <sub>GS</sub>		± 20	V
ドレイン電流 Drain Current	I <sub>D</sub>	Duty=50%	500	A
		DC 端子温度=80	390	
パルスドレイン電流 Pulsed Drain Current	I <sub>DM</sub>		1,000	A
全損失 Total Power Dissipation	P <sub>D</sub>		1,250	W
動作接合温度 Junction Temperature Range	T <sub>j</sub>		- 40 ~ + 150	
保存温度 Storage Temperature Range	T <sub>stg</sub>		- 40 ~ + 125	
絶縁耐圧 Isolation Voltage	V <sub>ISO</sub>	Terminal to Base AC,1minute	2,000	V <sub>(RMS)</sub>
締め付けトルク Mounting Torque	F <sub>tor</sub>	Module Base to Heatsink	3	N · m
		Busbar to Main Terminal	3	

MOS - FET電氣的特性 : MOS-FET ELECTRICAL CHARACTERISTICS (T<sub>c</sub> = 25 )

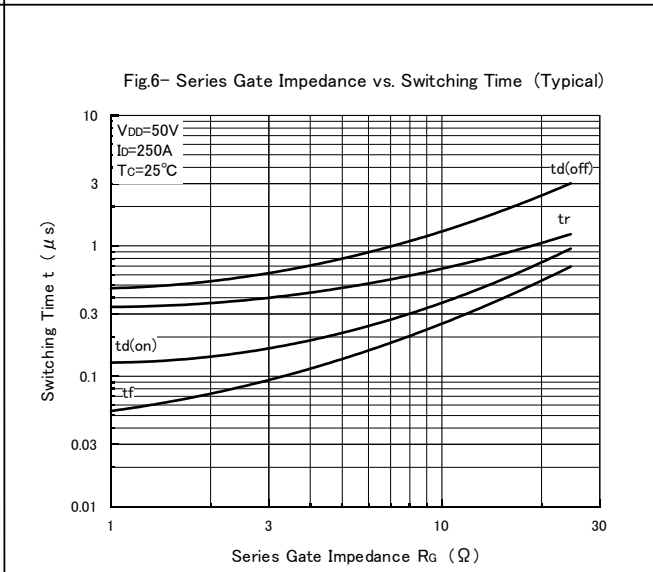
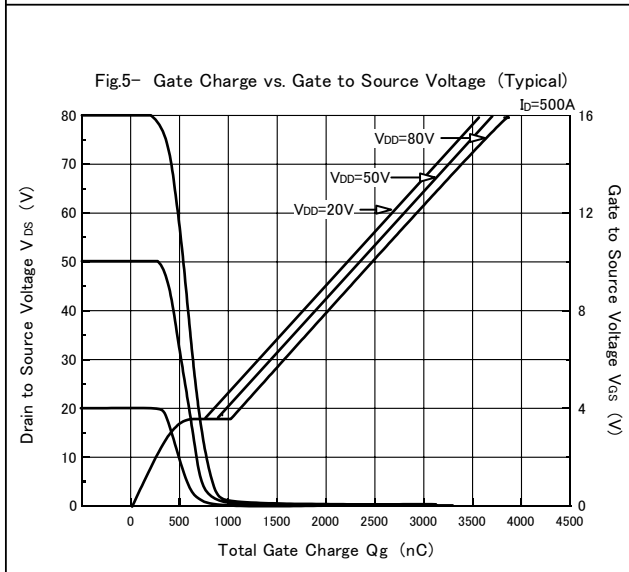
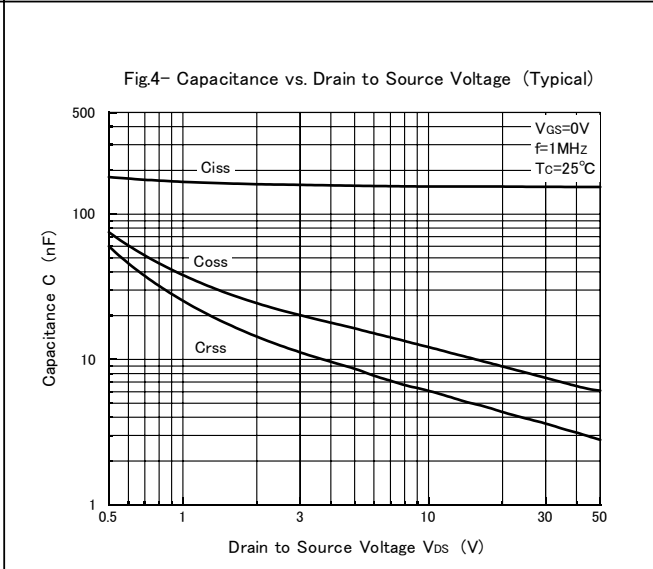
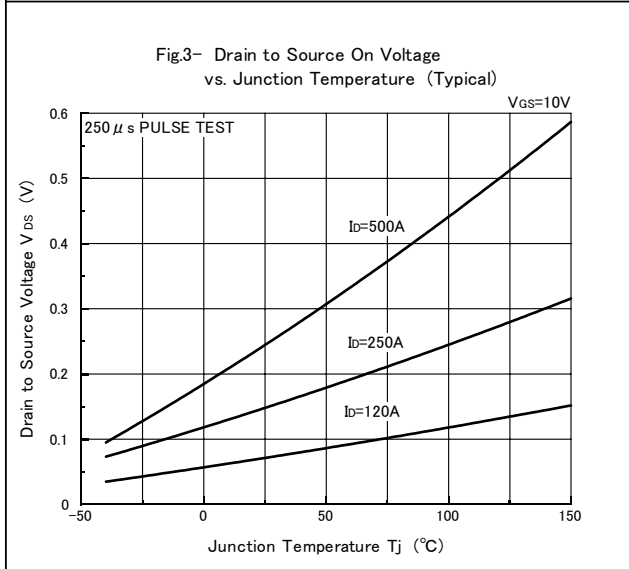
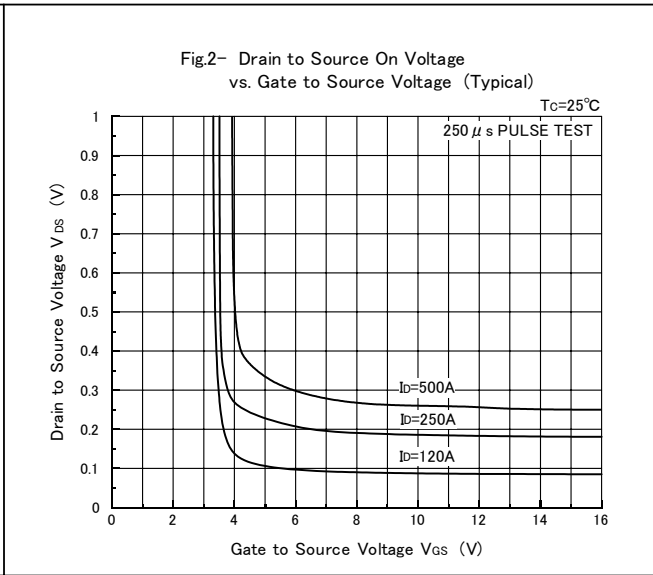
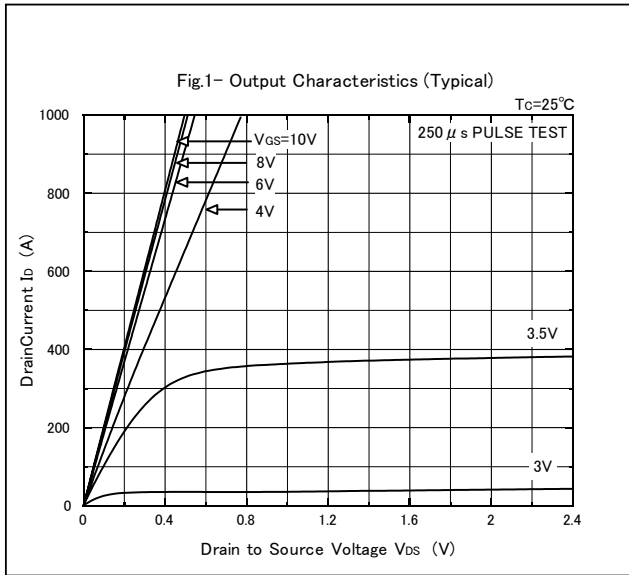
Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
ドレイン遮断電流 Zero Gate Voltage Drain Current	I <sub>DSS</sub>	V <sub>DS</sub> = 100V, V <sub>GS</sub> = 0V	-	-	1.0	mA
ゲート漏れ電流 Gate-Source Leakage Current	I <sub>GSS</sub>	V <sub>GS</sub> = ±20V, V <sub>DS</sub> = 0V	-	-	0.5	mA
ゲートしきい値電圧 Gate-Source Threshold Voltage	V <sub>GS(th)</sub>	V <sub>DS</sub> = V <sub>GS</sub> , I <sub>D</sub> = 16mA	1.0	-	2.5	V
ドレイン・ソース間わ抵抗 (MOSFET部) Drain-Source On-Resistance	R <sub>DS(on)</sub>	V <sub>GS</sub> = 10V, I <sub>D</sub> = 500A	-	0.5	0.56	m
ドレイン・ソース間わ電圧 Drain-Source On-Voltage	V <sub>DS(on)</sub>	V <sub>GS</sub> = 10V, I <sub>D</sub> = 500A (端子間)	-	0.25 (0.55)	0.30 (0.62)	V
順伝達コグダクス Forward Transconductance	G <sub>fs</sub>	V <sub>DS</sub> = 15V, I <sub>D</sub> = 500A	-	135	-	S
入力容量 Input Capacitance	C <sub>iss</sub>	V <sub>GS</sub> = 0V V <sub>DS</sub> = 10V f = 1MHz	-	155	-	nF
出力容量 Output Capacitance	C <sub>oss</sub>		-	12	-	nF
帰還容量 Reverse Transfer Capacitance	C <sub>rss</sub>		-	5.3	-	nF
スイッチング時間 Switching Time	上昇時間 Rise Time	V <sub>DD</sub> = 50V I <sub>D</sub> = 250A R <sub>G</sub> = 1.0 V <sub>GS</sub> = -5V, +10V	-	350	-	ns
	ターンオン遅延時間 Turn-on Delay Time		t <sub>d(on)</sub>	-	150	
	下降時間 Fall Time		t <sub>f</sub>	-	60	
	ターンオフ遅延時間 Turn-off Delay Time		t <sub>d(off)</sub>	-	450	

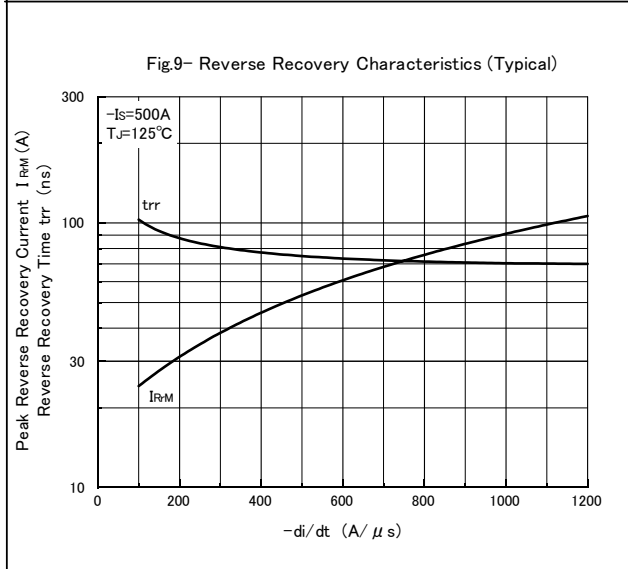
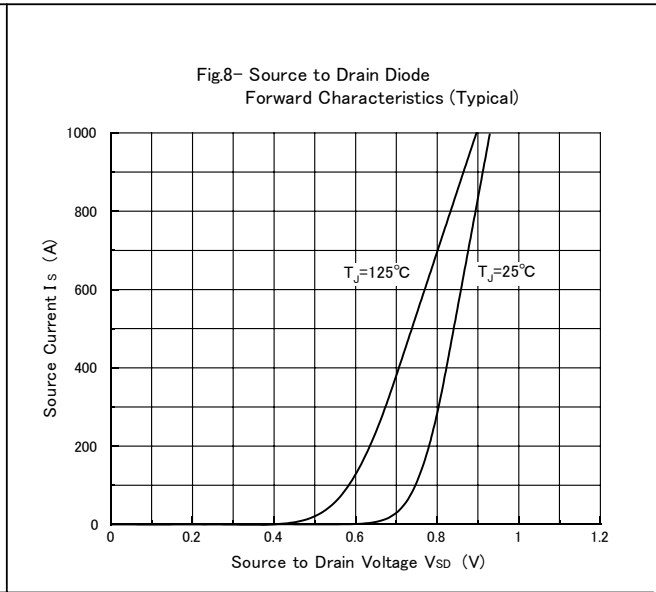
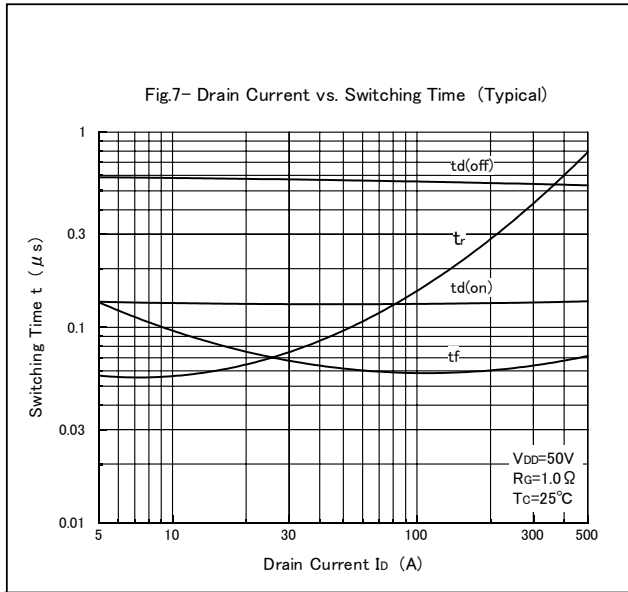
内蔵逆方向ダイオードの定格と特性 : Source-Drain DIODE RATINGS & CHARACTERISTICS (T<sub>c</sub> = 25 )

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
ソ - ス電流 Continuous Source Current	I <sub>S</sub>	Duty=50%	-	-	500	A
		DC 端子温度=80	-	-	390	
パルスソ - ス電流 Pulsed Source Current	I <sub>SM</sub>		-	-	1,000	A
ダイオード順電圧 Diode Forward Voltage	V <sub>SD</sub>	I <sub>S</sub> = 500A	-	0.85	-	V
逆回復時間 Reverse Recovery Time	t <sub>rr</sub>	I <sub>S</sub> = 500A, -dis/dt = 1000A/μs	-	70	-	ns

熱的 特性 : THERMAL CHARACTERISTICS

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
接合・ケ - ス間熱抵抗 Thermal Impedance, Junction to Case	R <sub>th(j-c)</sub>	MOS-FET	-	-	0.10	/W





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каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото, модуль, *nihon, niec*

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