



mfс 40а 800v купить  
 тиристорный модуль mfс 40а 800v купить цена  
 тиристорный модуль mfс 40а 800v  
 как проверить mfс 40а 800v  
 тиристоры mfс 40а 800v купить в Минск

## MFC40 MFA40 MFK40 MFX40 Thyristor/Diode Modules

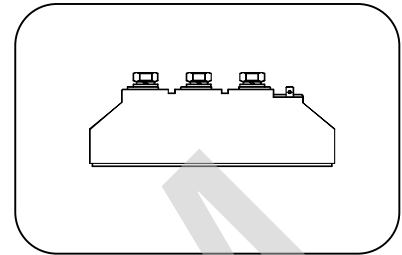
### Features:

- n Isolated mounting base 2500V~
- n Pressure contact technology with Increased power cycling capability
- n Space and weight savings

### Typical Applications

- n AC/DC Motor drives
- n Various rectifiers
- n DC supply for PWM inverter

$I_{T(AV)}$  **40A**  
 $V_{DRM}/V_{RRM}$  **600~1800V**  
 $I_{TSM}$   **$1.0A \times 10^3$**   
 $I^2t$   **$5.1A^2 \cdot S \cdot 10^3$**



| SYMBOL                 | CHARACTERISTIC   | TEST CONDITIONS   | $T_j(^{\circ}C)$ | VALUE |      |       | UNIT              |
|------------------------|--|---|------------------|-------|------|-------|-------------------|
|                        |  |   |                  | Min   | Type | Max   |                   |
| $I_{T(AV)}$            | Mean on-state current  | 180° half sine wave 50Hz<br>Single side cooled, $T_c=85^{\circ}C$                                 | 125              |       |      | 40    | A                 |
| $I_{T(RMS)}$           | RMS on-state current   |   | 125              |       |      | 63    | A                 |
| $V_{DRM}$<br>$V_{RRM}$ | Repetitive peak off-state voltage<br>Repetitive peak reverse voltage | $V_{DRM} \& V_{RRM} t_p=10ms$<br>$V_{DSM} \& V_{RSM} = V_{DRM} \& V_{RRM} + 200V$<br>respectively | 125              | 600   |      | 1800  | V                 |
| $I_{DRM}$<br>$I_{RRM}$ | Repetitive peak current  | at $V_{DRM}$<br>at $V_{RRM}$  | 125              |       |      | 8     | mA                |
| $I_{TSM}$              | Surge on-state current   | 10ms half sine wave<br>$V_R=60\%V_{RRM}$  | 125              |       |      | 1.00  | KA                |
| $I^2t$                 | $I^2T$ for fusing coordination                                       |   |                  |       |      | 5.10  | $A^2s \cdot 10^3$ |
| $V_{TO}$               | Threshold voltage  |   | 125              |       |      | 0.85  | V                 |
| $r_T$                  | On-state slop resistance   |   | 125              |       |      | 5.57  | mΩ                |
| $V_{TM}$               | Peak on-state voltage  | $I_{TM}=120A$   | 25               |       |      | 1.60  | V                 |
| $dv/dt$                | Critical rate of rise of off-state voltage                           | $V_{DM}=67\%V_{DRM}$  | 125              |       |      | 800   | V/μs              |
| $di/dt$                | Critical rate of rise of on-state current                            | $I_{TM}=80A$ , Gate source 1.5A<br>$t_r \leq 0.5\mu s$ Repetitive                                 | 125              |       |      | 50    | A/μs              |
| $I_{GT}$               | Gate trigger current   |   |                  | 30    |      | 100   | mA                |
| $V_{GT}$               | Gate trigger voltage   | $V_A=12V, I_A=1A$   | 25               | 0.8   |      | 2.5   | V                 |
| $I_H$                  | Holding current  |   |                  | 20    |      | 150   | mA                |
| $V_{GD}$               | Non-trigger gate voltage   | $V_{DM}=67\%V_{DRM}$  | 125              |       |      | 0.2   | V                 |
| $R_{th(j-c)}$          | Thermal resistance<br>Junction to case                               | Single side cooled  |                  |       |      | 0.650 | $^{\circ}C/W$     |
| $R_{th(c-h)}$          | Thermal resistance<br>case to heat sink                              | Single side cooled  |                  |       |      | 0.2   | $^{\circ}C/W$     |
| $V_{iso}$              | Isolation voltage  | 50Hz, R.M.S, $t=1min, I_{iso}: 1mA(MAX)$  |                  | 2500  |      |       | V                 |
| $F_m$                  | Thermal connection torque (M5)                                       |   |                  |       | 4.0  |       | N·m               |
|                        | Mounting torque (M6)   |   |                  |       | 6.0  |       | N·m               |
| $T_{stg}$              | Stored temperature   |   |                  | -40   |      | 125   | $^{\circ}C$       |
| $W_t$                  | Weight   |   |                  |       | 115  |       | g                 |
| Outline                | 215F3  |   |                  |       |      |       |                   |

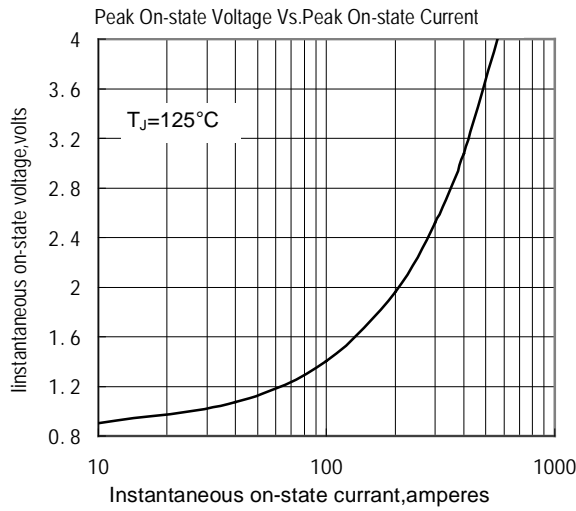


Fig.1

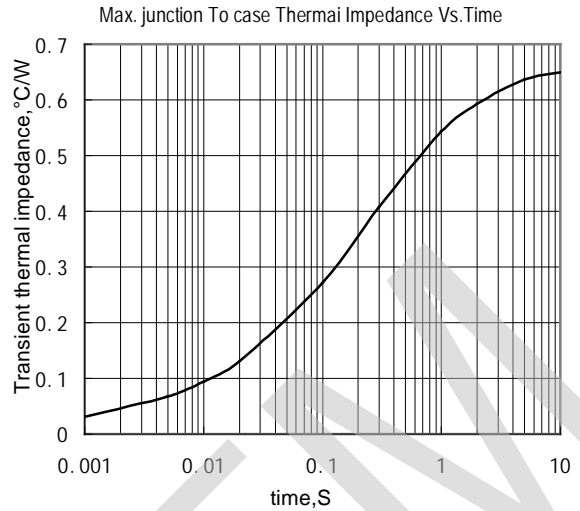


Fig.2

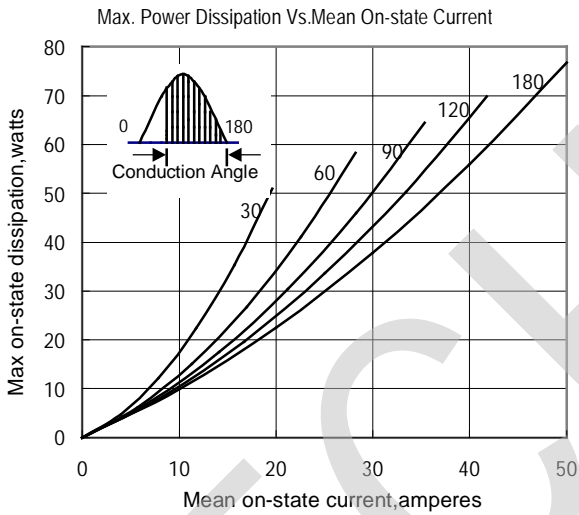


Fig.3

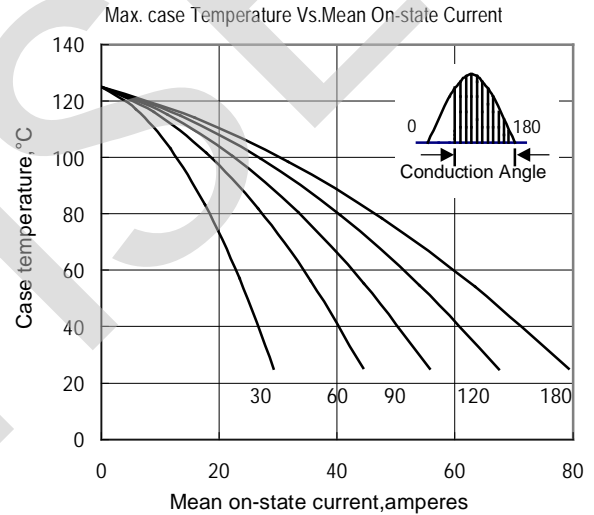


Fig.4

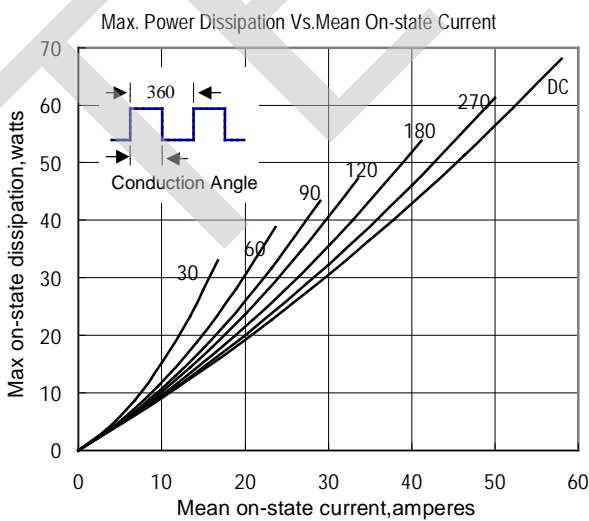


Fig.5

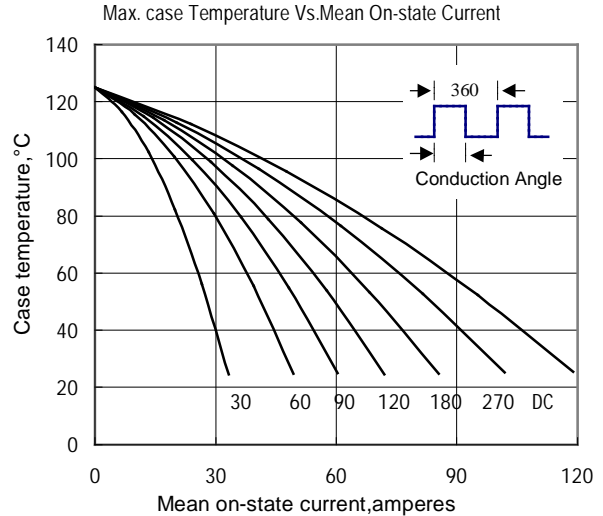


Fig.6

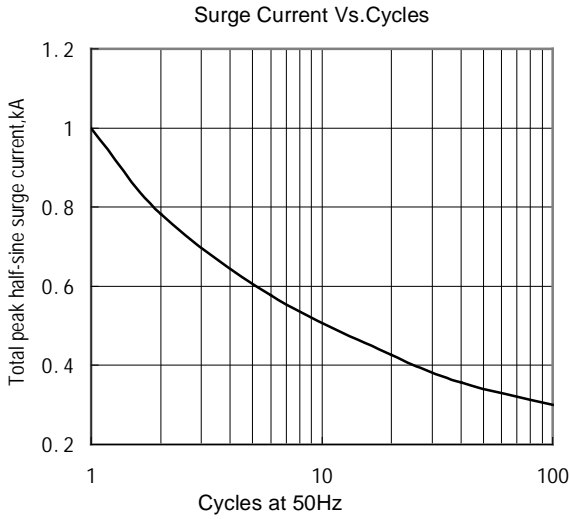


Fig.7

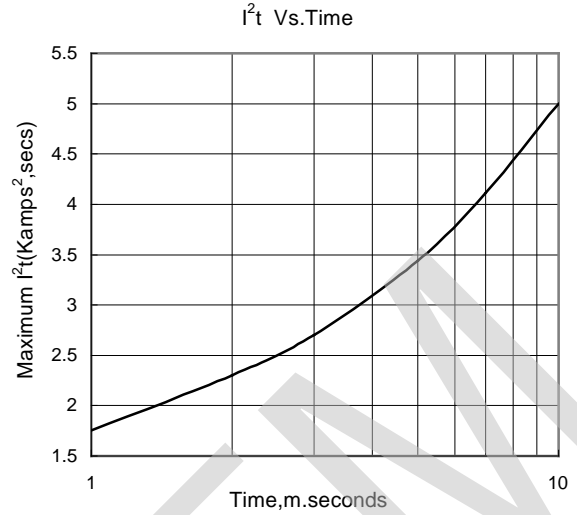


Fig.8

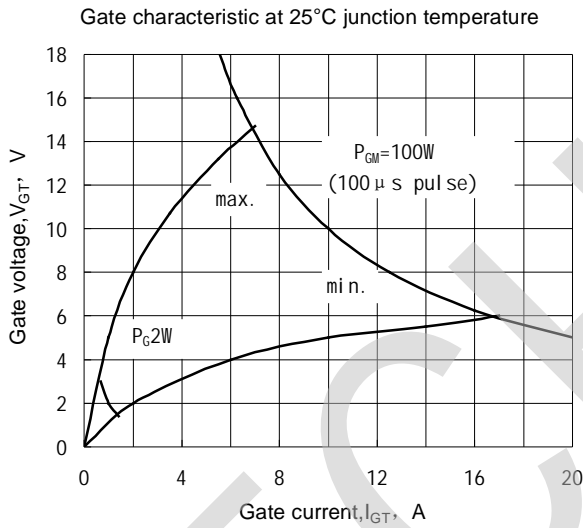


Fig.9

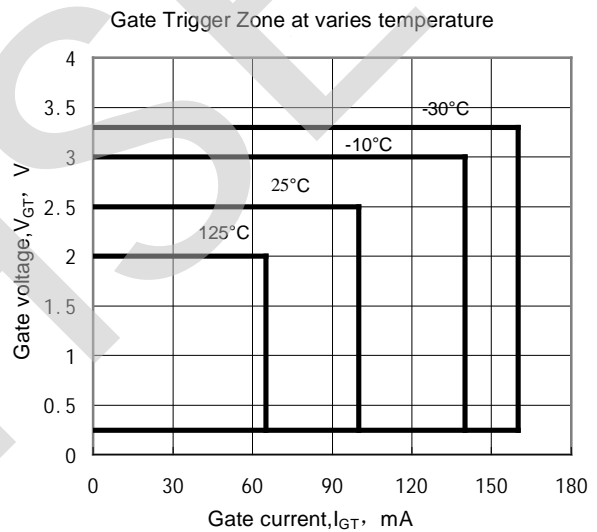
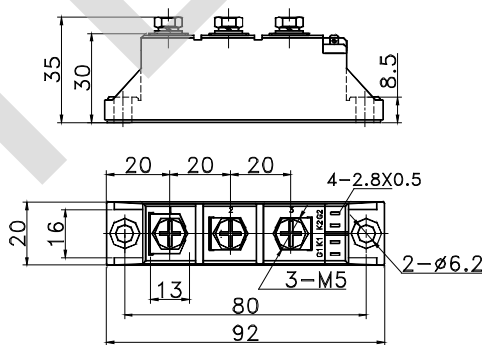


Fig.10

Outline:



215F3

