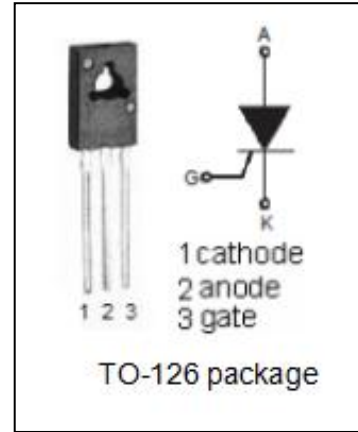


## isc Thyristors

## 2P4M

## APPLICATIONS

- Highly sensitive triggering levels
- For capacitive discharge ignitions, motor control in kitchen aids, overvoltage crowbar protection in low power supplies applications.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

ABSOLUTE MAXIMUM RATINGS( $T_a=25^\circ\text{C}$ )

| SYMBOL             | PARAMETER                                                  | MIN          | UNIT             |
|--------------------|------------------------------------------------------------|--------------|------------------|
| $V_{\text{DRM}}$   | Repetitive peak off-state voltage                          | 400          | V                |
| $V_{\text{RRM}}$   | Repetitive peak reverse voltage                            | 400          | V                |
| $I_{\text{T(AV)}}$ | On-state current $180^\circ$ conduction angle              | 4            | A                |
| $I_{\text{TSM}}$   | Non-repetitive surge peak on-state current $t=20\text{ms}$ | 20           | A                |
| $P_{\text{G(AV)}}$ | Average gate power dissipation $T_j = 125^\circ\text{C}$   | 0.2          | W                |
| $T_j$              | Junction temperature                                       | 125          |                  |
| $T_{\text{stg}}$   | Storage temperature                                        | -40 to + 150 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS ( $T_c=25^\circ\text{C}$  unless otherwise specified)

| SYMBOL           | PARAMETER                         | CONDITIONS                                                                                                                                            | MIN | MAX       | UNIT          |
|------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|---------------|
| $I_{\text{RRM}}$ | Repetitive peak reverse current   | $V_{\text{RM}}=V_{\text{RRM}}, R_{\text{GK}}=1\text{k}\Omega$<br>$V_{\text{RM}}=V_{\text{RRM}}, R_{\text{GK}}=1\text{k}\Omega, T_j=125^\circ\text{C}$ |     | 10<br>500 | $\mu\text{A}$ |
| $I_{\text{DRM}}$ | Repetitive peak off-state current | $V_{\text{DM}}=V_{\text{DRM}}, R_{\text{GK}}=1\text{k}\Omega$<br>$V_{\text{DM}}=V_{\text{DRM}}, R_{\text{GK}}=1\text{k}\Omega, T_j=125^\circ\text{C}$ |     | 10<br>500 | $\mu\text{A}$ |
| $V_{\text{TM}}$  | On-state voltage                  | $I_{\text{TM}}=4\text{A}$                                                                                                                             |     | 1.8       | V             |
| $I_{\text{GT}}$  | Gate-trigger current              | $V_{\text{DM}}=12\text{V}; R_{\text{L}}=140\Omega$                                                                                                    |     | 200       | $\mu\text{A}$ |
| $V_{\text{GT}}$  | Gate-trigger voltage              | $V_{\text{DM}}=12\text{V}; R_{\text{L}}=140\Omega$                                                                                                    |     | 0.8       | V             |

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