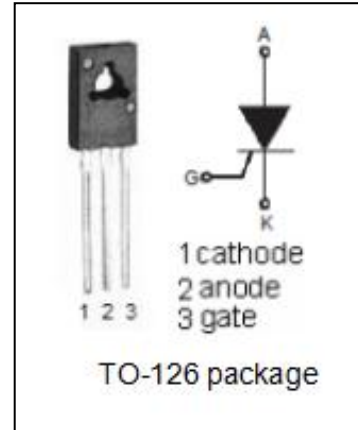


isc Thyristors

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_{DRM}	Repetitive peak off-state voltage	400	V
V_{RRM}	Repetitive peak reverse voltage	400	V
$I_{\text{T(AV)}}$	On-state current 180° conduction angle	4	A
I_{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_{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_{RRM}	Repetitive peak reverse current	$V_{\text{RM}}=V_{\text{RRM}}, R_{\text{GK}}=1\text{k}\Omega$ $V_{\text{RM}}=V_{\text{RRM}}, R_{\text{GK}}=1\text{k}\Omega, T_j=125^\circ\text{C}$		10 500	μA
I_{DRM}	Repetitive peak off-state current	$V_{\text{DM}}=V_{\text{DRM}}, R_{\text{GK}}=1\text{k}\Omega$ $V_{\text{DM}}=V_{\text{DRM}}, R_{\text{GK}}=1\text{k}\Omega, T_j=125^\circ\text{C}$		10 500	μA
V_{TM}	On-state voltage	$I_{\text{TM}}= 4\text{A}$		1.8	V
I_{GT}	Gate-trigger current	$V_{\text{DM}}=12\text{V}; R_{\text{L}}=140\Omega$		200	μA
V_{GT}	Gate-trigger voltage	$V_{\text{DM}}=12\text{V}; R_{\text{L}}=140\Omega$		0.8	V

**NOTICE:**

ISC reserves the rights to make changes of the content herein the datasheet at any time without notification. The information contained herein is presented only as a guide for the applications of our products.

ISC products are intended for usage in general electronic equipment. The products are not designed for use in equipment which require specialized quality and/or reliability, or in equipment which could have applications in hazardous environments, aerospace industry, or medical field. Please contact us if you intend our products to be used in these special applications.

ISC makes no warranty or guarantee regarding the suitability of its products for any particular purpose, nor does ISC assume any liability arising from the application or use of any products, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages.