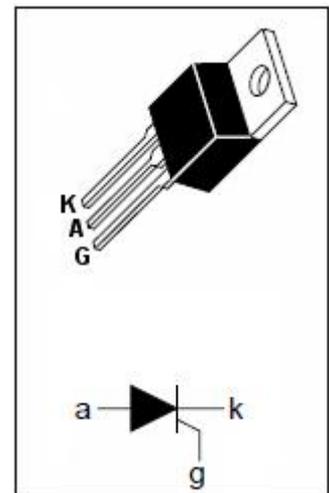


APPLICATIONS

- 5A continuous on-state current
- 30A surge-current
- Glass passivated
- Max I_{GT} of 200 μ A
- 100% avalanche tested
- 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	600	V
V_{RRM}	Repetitive peak reverse voltage	600	V
$I_{T(AV)}$	On-state current $T_c=80^\circ\text{C}$	3.2	A
$I_{T(RMS)}$	RMS on-state current $T_c=80^\circ\text{C}$	5	A
I_{TM}	Surge peak on-state current	30	A
P_{GM}	Peak gate power $P_W \leq 300 \mu\text{s}$	1.3	W
$P_{G(AV)}$	Average gate power	0.3	W
T_j	Operating Junction temperature	110	$^\circ\text{C}$
T_{stg}	Storage temperature	-40 ~ +125	$^\circ\text{C}$
$R_{th(j-c)}$	Thermal resistance, junction to case	1.9	$^\circ\text{C/W}$
$R_{th(j-a)}$	Thermal resistance, junction to ambient	62.5	$^\circ\text{C/W}$


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

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_{RM}=V_{RRM}$, $V_{RM}=V_{RRM}$, $T_j=110^\circ\text{C}$			0.4 1.0	mA
I_{DRM}	Repetitive peak off-state current	$V_{DM}=V_{DRM}$, $V_{DM}=V_{DRM}$, $T_j=110^\circ\text{C}$			0.4 1.0	mA
V_{TM}	On-state voltage	$I_{TM}=5\text{A}$			1.7	V
I_{GT}	Gate-trigger current	$V_{AA}=6\text{V}$; $R_L=1\text{k}\Omega$			200	μA
V_{GT}	Gate-trigger voltage	$V_{AA}=6\text{V}$; $R_L=100\Omega$			1.0	V
I_H	Holding current	$V_{AA}=6\text{V}$; $R_{GK}=1\text{k}\Omega$, $I_T=10\text{mA}$			5	mA

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.

