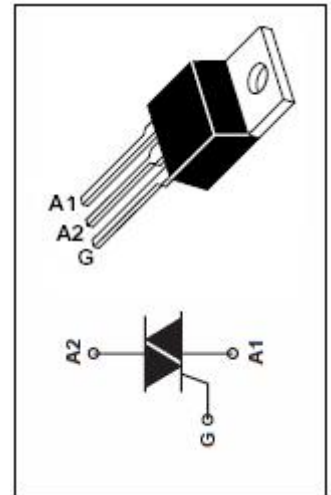


## FEATURES

- With TO-220 package
- Sensitive Gate Triacs
- Glass Passivated
- Max  $I_{GT}$  of 50 mA (Quadrants 1~3)
- 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	800	V
$V_{RRM}$	Repetitive peak reverse voltage	800	V
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_C=85^{\circ}\text{C}$	8	A
$I_{TSM}$	Non-repetitive peak on-state current	70	A
$T_j$	Operating junction temperature	110	$^{\circ}\text{C}$
$T_{stg}$	Storage temperature	-45~150	$^{\circ}\text{C}$
$R_{th(j-c)}$	Thermal resistance, junction to case	1.8	$^{\circ}\text{C/W}$
$R_{th(j-a)}$	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	TYP.	MAX	UNIT
$I_{DRM}$	Repetitive peak off-state current		$V_D=V_{DRM}$ , $T_C=110^{\circ}\text{C}$		2.0	mA
$I_{GT}$	Gate trigger current	I	$V_{supply} = 12\text{ V}^+$ ; $R_L = 10\ \Omega$ ; $t_{p(g)} > 20\ \mu\text{s}$	2	50	mA
		II		12	50	
		III		9	50	
		IV		20		
$I_H$	Holding current		$V_{supply} = 12\text{ V}^+$ , $I_G = 0$ initial $I_{TM}=100\text{mA}$		30	mA
$V_{GT}$	Gate trigger voltage all quadrant		$V_{supply} = 12\text{ V}^+$ ; $R_L = 10\ \Omega$ ; $t_{p(g)} > 20\ \mu\text{s}$		2	V
$V_{TM}$	On-state voltage		$I_T = 12\text{A}$ ; $I_G = 50\text{mA}$		2.1	V

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