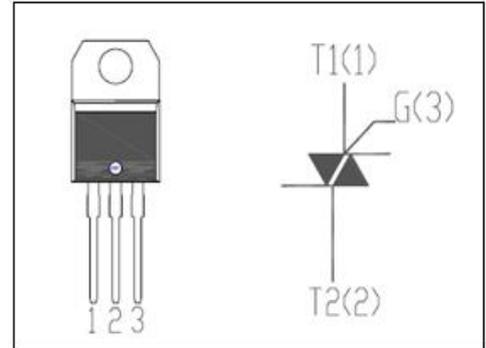


**FEATURES**

- With TO-220AB insulated package
- Suitable for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


**ABSOLUTE MAXIMUM RATINGS(Ta=25°C)**

SYMBOL	PARAMETER	MIN	UNIT
$V_{DRM}$	Repetitive peak off-state voltage	600	V
$V_{RRM}$	Repetitive peak off-state voltage	600	V
$I_{T(RMS)}$	RMS on-state current (full sine wave) $T_c=90^\circ\text{C}$	12	A
$I_{TSM}$	Non-repetitive peak on-state current $t_p=20\text{ms}$	120	A
$T_j$	Operating junction temperature	125	°C
$T_{stg}$	Storage temperature	-40~150	°C
$R_{th(j-c)}$	Thermal resistance, junction to case	2.3	°C/W
$R_{th(j-a)}$	Thermal resistance, junction to ambient	60	°C/W

**ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
$I_{RRM}$	Repetitive peak reverse current	$V_R=V_{RRM}$ , $V_R=V_{RRM}$ , $T_J=125^\circ\text{C}$	0.005 1	mA
$I_{DRM}$	Repetitive peak off-state current	$V_R=V_{RRM}$ , $V_R=V_{RRM}$ , $T_J=125^\circ\text{C}$	0.005 1	mA
$I_{GT}$	Gate trigger current	I - II - III $V_D=12\text{V}$ ; $R_L=30\ \Omega$	50	mA
$I_H$	Holding current	$I_{GT}=0.1\text{A}$ , Gate Open	50	mA
$V_{GT}$	Gate trigger voltage	I - II - III $V_D=12\text{V}$ ; $R_L=30\ \Omega$	1.3	V
$V_{TM}$	On-state voltage	$I_T=17\text{A}$ ; $t_p=380\ \mu\text{s}$	1.55	V

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