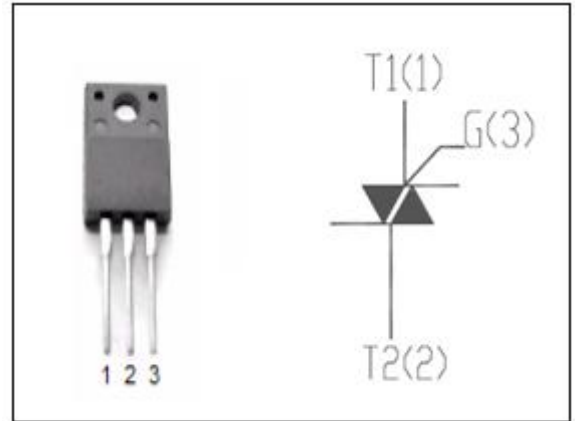


APPLICATIONS

- With TO-220F package
- Applications subject to high temperature ($T_J = 150^\circ\text{C}$)
- Be suitable for general purpose AC switching, they can be used as an ON/OFF function in 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	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
$I_{T(RMS)}$	RMS on-state current full sine wave; $T_{mb} \leq 101^\circ\text{C}$	16	A
I_{TSM}	Surge non-repetitive on-state current $t=20\text{ms}$ $t=16.7\text{ms}$	140 150	A
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)	0.5	W
T_j	Operating junction temperature	150	$^\circ\text{C}$
T_{stg}	Storage temperature	-40~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (T_c=25°C unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM}	T _J =125°C		0.5	mA
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM}	T _J =125°C		0.5	mA
V _{TM}	On-state voltage	I _{TM} = 18A			1.5	V
I _{GT}	Gate-trigger current Quadrant (I - II - III)	V _D = 12 V; I _T =0.1A		2	35	mA
V _{GT}	Gate-trigger voltage Quadrant (I - II - III)	V _D = 12 V; I _T =0.1A			1.5	V

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