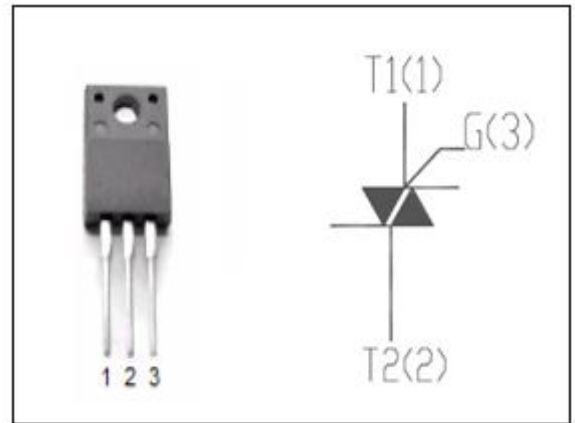


isc Thyristors

BTA316X-800CT

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℃)

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} ≤ 101 °C	16	A
I _{TSM}	Surge non-repetitive on-state current t=20ms t=16.7ms	140 150	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	150	°C
T _{stg}	Storage temperature	-40~150	°C

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

SYMBOL	PARAMETER	CONDITIONS		MIN	MAX	UNIT
I_{RRM}	Repetitive peak reverse current	$V_R=V_{RRM}$	$T_J=125^\circ\text{C}$		0.5	mA
I_{DRM}	Repetitive peak off-state current	$V_D=V_{DRM}$	$T_J=125^\circ\text{C}$		0.5	mA
V_{TM}	On-state voltage	$I_{TM}=18\text{A}$			1.5	V
I_{GT}	Gate-trigger current Quadrant (I - II - III)	$V_D=12\text{V}; I_T=0.1\text{A}$		2	35	mA
V_{GT}	Gate-trigger voltage Quadrant (I - II - III)	$V_D=12\text{V}; I_T=0.1\text{A}$			1.5	V

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