

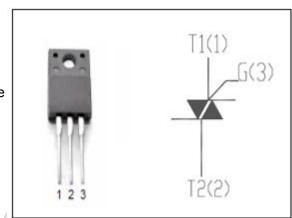
isc Thyristors BTA308X-800C

DESCRIPTION

- · With TO-220F packaging
- Operating in 3 quadrants
- · High commutation capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- · Solid state relays; heating and cooking appliances
- Switching applications



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage	800	V
V_{RRM}	Repetitive peak reverse voltage	800	V
I _{T(RSM)}	Average on-state current @Tc=75°C	8	Α
I _{TSM}	Surge non-repetitive on-state current 50HZ 60HZ	60 65	Α
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)	0.5	W
T _j	Operating junction temperature	-40~125	$^{\circ}$
T _{stg}	Storage temperature	-40~125	$^{\circ}$

ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tj=25℃			0.01	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tj=125℃			0.5	mA
V_{TM}	On-state voltage	I _T =10A				1.65	V
I _{GT}	Gate-trigger current	- / ·		I	5	35	mA
				II	5	35	
				III	5	35	
V _{GT}	Gate-trigger voltage	V _D =12V;I _T =0.1A				1.0	V
Rth (j-c)	Junction to case	Half cycle				4.5	°C/W

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