

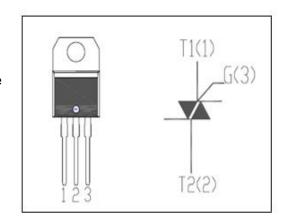
isc Thyristors BTA16-400B

DESCRIPTION

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

APPLICATIONS

- Switching applications
- Phase control
- Static switching on inductive or resistive load



ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER			UNIT
V_{DRM}	Repetitive peak off-state voltage			V
V_{RRM}	Repetitive peak reverse voltage	400	V	
I _{T(RSM)}	Average on-state current	@ Tc=80℃	16	Α
I _{TSM}	Surge non-repetitive on-state current	50Hz 60Hz	160 170	Α
P _{G(AV)}	Average gate power dissipation (over any 20 ms period)			W
Tj	Operating junction temperature			${\mathbb C}$
T _{stg}	Storage temperature			$^{\circ}$



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ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	V _R =V _{RRM} Rated; Tj=25℃			0.01	^
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tj=125℃			2.0	mA
V_{TM}	On-state voltage	I _T =22.5A				1.6	V
І _{бт}	Gate-trigger current)	I		50	- mA	
		V _D =12V;R _L =33 Ω	II				50
		VD = 12 V,11\(\(\text{L} = 00 \) as		III			50
		IV				100	
V_{GT}	Gate-trigger voltage	V _D =12V;R _L =33 Ω				1.5	V
Rth (j-c)	Junction to case	For DC				2.9	°C/W

NOTICE:

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