

isc Thyristors

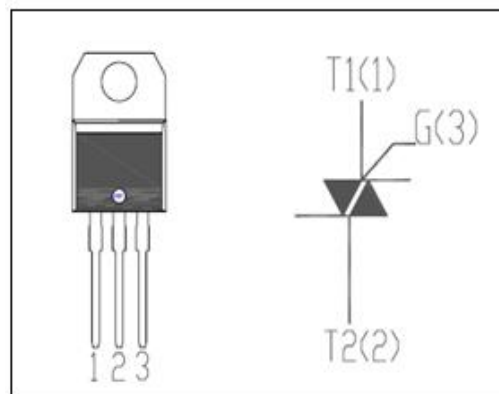
BTA16-700B

DESCRIPTION

- With TO-220 packaging
- Operating in 4 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($T_a=25^\circ\text{C}$)

SYMBOL	PARAMETER		MAX	UNIT
V_{DRM}	Repetitive peak off-state voltage		700	V
V_{RRM}	Repetitive peak reverse voltage		700	V
$I_{\text{T(RSM)}}$	Average on-state current	$T_c=80^\circ\text{C}$	16	A
I_{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	160 170	A
$P_{\text{G(AV)}}$	Average gate power dissipation (over any 20 ms period) $T_j=125^\circ\text{C}$		1	W
T_j	Operating junction temperature		-40~125	$^\circ\text{C}$
T_{stg}	Storage temperature		-40~150	$^\circ\text{C}$

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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} Rated; V _D =V _{DRM} Rated;	T _J =25°C T _J =125°C		10	μ A
I _{DRM}	Repetitive peak off-state current			2	mA	
V _{TM}	On-state voltage	I _T =22.5A; t _p =380 μ s			1.6	V
I _{GT}	Gate-trigger current	V _D =12V;R _L =33Ω;	I		50	mA
			II		50	
			III		50	
			IV		100	
V _{GT}	Gate-trigger voltage	V _D =12V;R _L =33Ω;			1.5	V
R _{th} (j-c)	Junction to case				2.9	°C/W

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