

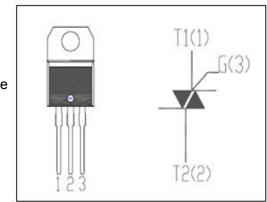
isc Thyristors BTA12-700B

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

- · 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		700	V
V_{RRM}	Repetitive peak reverse voltage	4	700	V
I _{T(RSM)}	Average on-state current @Tc=90℃		12	Α
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	120 126	Α
$P_{G(AV)}$	Average gate power dissipation (over any 20 ms period)			W
Tj	Operating junction temperature			$^{\circ}$
T _{stg}	Storage temperature		-40~150	$^{\circ}\!\mathbb{C}$

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℃				0.005	
I _{DRM}	Repetitive peak off-state current	V _D =V _{DRM} Rated;	Tj=125℃			1	mA	
V_{TM}	On-state voltage	I _T =17A				1.55	V	
I _{GT}	Gate-trigger current			I		50		
		V _D =12V;RG=30 Ω		II		50	mA	
		VD - 12V,RG-30 \(\)2		III		50	IIIA	
				IV		100		
V_{GT}	Gate-trigger voltage	V _D =12V;RG=30 Ω				1.5	V	
Rth (j-c)	Junction to case	Half cycle				2.2	°C/W	

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