

isc Thyristors

INCHANGE SEMICONDUCTOR

BTA04-700S

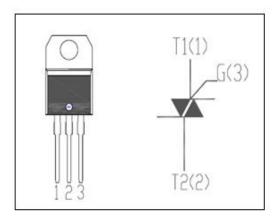
DESCRIPTION

- 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(Ta=25°C)



SYMBOL	PARAMETER	МАХ	UNIT	
V _{DRM}	Repetitive peak off-state voltage			V
V _{RRM}	Repetitive peak reverse voltage			V
I _{T(RSM)}	Average on-state current Tc=90°C			A
I _{TSM}	Surge non-repetitive on-state current	50HZ 60HZ	40 42	A
P _{G(AV)}	Average gate power dissipation (over any 20 ms period) Tj=125 $^\circ\!\!\mathbb{C}$			W
Tj	Operating junction temperature			°C
T _{stg}	Storage temperature			Ĉ



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SYMBOL	PARAMETER	CONDITIONS			MIN	МАХ	UNIT
I _{RRM}	Repetitive peak reverse current	V _R =V _{RRM} Rated;	Tj=25℃			10 0.75	μA mA
I _{DRM}	Repetitive peak off-state current	$V_D = V_{DRM}$ Rated; Tj=110					
V _{TM}	On-state voltage	I _T =5.5A; t _P =380 μ s				1.65	V
I _{GT}	Gate-trigger current			Ι		10	
		V =12V/ID =2201		II		10]
				III		10	- mA
				IV		10	
V _{GT}	Gate-trigger voltage	$V_D = 12V; R_L = 33\Omega;$				1.5	V
Rth _(j-c)	Junction to case					4.4	°C/W

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise specified)

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