

## isc Thyristors

### INCHANGE SEMICONDUCTOR

# BTA04-700S

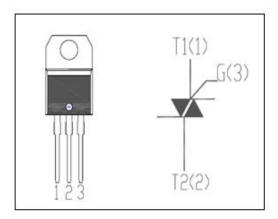
#### DESCRIPTION

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



## BTA04-700S

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

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

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