

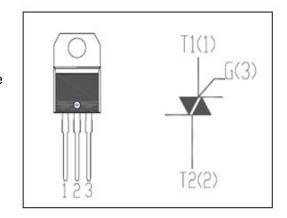
# isc Thyristors BTA04-700S

### **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	MAX	UNIT	
$V_{DRM}$	Repetitive peak off-state voltage			V
$V_{RRM}$	Repetitive peak reverse voltage			V
I <sub>T(RSM)</sub>	Average on-state current Tc=90°C	4	А	
I <sub>TSM</sub>	Surge non-repetitive on-state current	50HZ 60HZ	40 42	А
P <sub>G(AV)</sub>	Average gate power dissipation ( over any 20 ms period ) Tj=125℃			W
Tj	Operating junction temperature			$^{\circ}$
$T_{stg}$	Storage temperature			$^{\circ}$



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### **ELECTRICAL CHARACTERISTICS (Tc=25℃ unless otherwise specified)**

SYMBOL	PARAMETER	CONDITIONS			MIN	MAX	UNIT	
I <sub>RRM</sub>	Repetitive peak reverse current	V <sub>P</sub> =V <sub>PPM</sub> Rated:	V <sub>R</sub> =V <sub>RRM</sub> Rated; Tj=25℃		!		10	μ <b>Α</b>
I <sub>DRM</sub>	Repetitive peak off-state current	V <sub>D</sub> =V <sub>DRM</sub> Rated;	Tj=110℃			0.75	mA	
$V_{TM}$	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/D =22O		II		10		
		$V_D = 12V; R_L = 33\Omega;$ III		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	

### **NOTICE:**

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