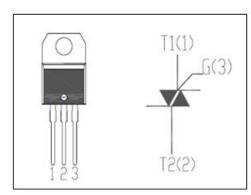


isc Triacs BTB10-600B

## **FEATURES**

- · With TO-220AB non insulated package
- Suitables for general purpose AC switching. Which can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits. Or for phase control operation in light dimmers, motor speed controllers etc.
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



## ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	MIN	UNIT
V <sub>DRM</sub>	Repetitive peak off-state voltage	600	V
$V_{RRM}$	Repetitive peak off-state voltage	600	V
I <sub>T(RMS)</sub>	RMS on-state current (full sine wave)Tc=95℃	10	Α
I <sub>TSM</sub>	Non-repetitive peak on-state current t <sub>p</sub> =10ms	100	Α
Tj	Operating junction temperature	125	°C
T <sub>stg</sub>	Storage temperature	-40~150	$^{\circ}\mathbb{C}$
R <sub>th(j-c)</sub>	Thermal resistance, junction to case	3.1	°C/W
R <sub>th(j-a)</sub>	Thermal resistance, junction to ambient	60	°C/W

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

SYMBOL	PARAMETER		CONDITIONS	MAX	UNIT
I <sub>RRM</sub>	Repetitive peak reverse current		V <sub>R</sub> =V <sub>RRM</sub> , V <sub>R</sub> =V <sub>RRM</sub> , Tj=110°C	0.01 0.5	mA
I <sub>DRM</sub>	Repetitive peak off-state current		V <sub>D</sub> =V <sub>DRM</sub> , V <sub>D</sub> =V <sub>DRM</sub> , Tj=110 °C	0.01 0.5	mA
I <sub>GT</sub>		I	- V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω	50	mA
	Gate trigger current	II		50	
		III		50	
		IV		100	
I <sub>H</sub>	Holding current		I <sub>GT</sub> = 0.5A, Gate Open	50	mA
V <sub>GT</sub>	Gate trigger voltage all quadrant		V <sub>D</sub> =12V; R <sub>L</sub> = 33 Ω	1.5	V
$V_{TM}$	On-state voltage		I <sub>T</sub> = 14A; t <sub>p</sub> = 380 μ s	1.5	V



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