

# **TIGER ELECTRONIC CO.,LTD**

#### **Product specification**

# **BTA/BTB12-600B**

## **12A TRIACS**

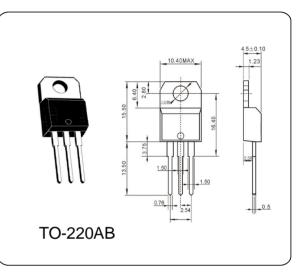
#### **GENERAL DESCRIPTION**

Available either in through-hole or surface-mount packages, the BTA/BTB12 - 600B triac series is suitable for general purpose AC switching. They 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, ...

The snubberless versions (BTA/BTB...W series) are specially recommended for use on inductive loads, thanks to their high commutation performances. By using an internal ceramic pad, the BTA series provides voltage insulated tab (rated at 2500V RMS) complying with UL standards.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 C)							
PARAMETER	Symbol	Value	Unit				
Repetitive peak off-state voltages	V <sub>drm</sub>	600	V				
peak off-state reverse voltages	V <sub>RRM</sub>	600	V				
RMS on-state current	Ι <sub>τ</sub>	12.0	Α				
Non-repetitive peak on-state current	I <sub>TSM</sub>	120	А				
Max. Operating Junction Temperature	T <sub>j</sub>	110	°C				
Storage Temperature	T <sub>stg</sub>	-45~150	°C				

#### ABSOLUTE MAXIMUM RATINGS ( Ta = $25 \degree$ C)



### ELECTRICAL CHARACTERISTICS (Ta = 25 $^{\circ}$ C)

PARAME	TER	Symbol	Test Conditions	Min.	Max	Unit
Repetitive peak off-state voltages		$V_{\text{drm}}$	I <sub>D</sub> =0.1mA	600		V
Repetitive peak off-state current		I <sub>DRM</sub>	V <sub>DRM</sub> =520V		10	uA
On-state voltag	е	V <sub>TM</sub>	I <sub>T</sub> =17A		1.55	V
Holding current		I <sub>H</sub>	I <sub>T</sub> =0.5A,I <sub>GT</sub> =20mA		50	mA
Gate trigger Current	T2+G+	- I <sub>GT</sub>	V <sub>AK</sub> =12V R <sub>L</sub> =30		50	- mA
	T2+G-				50	
	T2-G-				50	
	T2-G+				100	
Gate trigger Voltage	T2+G+	- V <sub>GT</sub>	$V_{D}=12V$ $R_{L}=30$		1.3	- V
	T2+G-				1.3	
	T2-G-				1.3	
	T2-G+				1.3	