

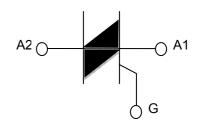
### **BTA16 Series**

# **TRIAC**

### **FEATURE**

Glass passivated triacs in a plastic TO220 package. The bta16 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 phaseoperation in light dimmers, motorspeed controllers,...
Compliance to RoHS.



## **ABSOLUTE MAXIMUM RATINGS**

Symbol	Ratings	Va	Unit		
		BTA16-600B	BTA16-800B		
V <sub>DRM</sub>	Repetitive peak off-state voltage	600	800	V	
V <sub>RRM</sub>	Repetitive peak reverse voltage	600	800		
I <sub>T(RMS)</sub>	RMS on-state current	16		Α	
I <sub>TSM</sub>	Non-repetitive peak on-state current	n-repetitive peak on-state current 160		Α	
T <sub>stg</sub>	Storage temperature range	-45 to +150		°C	
T <sub>j</sub>	Operating junction temperature	110		°C	

#### THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit		
R <sub>∂j-c</sub>	Thermal resistance junction to case	≤ 2.2	°C/W		
R <sub>∂j-a</sub>	Thermal resistance junction to ambient	≤ 60	C/VV		



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# **ELECTRICAL CHARACTERISTICS**

TC=25°C unless otherwise noted

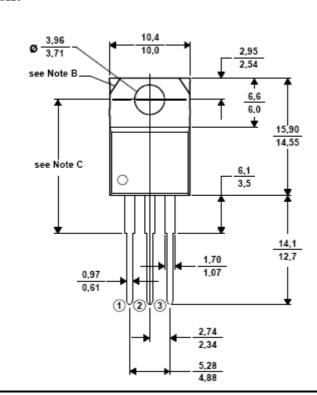
Symbol	Ratings	Test Condition(s)		Min	Тур	Max	Unit
$V_{DRM}$	Repetitive peak off- state voltage	I <sub>D</sub> = 0.1 mA	BTA16-600B	600	-	-	- V
			BTA16-800B	800	-	-	
V <sub>RRM</sub>	Repetitive peak reverse voltage	I <sub>D</sub> = 0.5 mA	BTA16-600B	600	-	-	
			BTA16-800B	800	-	-	
I <sub>GT</sub>	Gate trigger current	$V_D = 12 V$ $R_L = 100 \Omega$	T2+ G+	-	-	50	- mA
			T2+ G-	-	-	50	
			T2- G-	-	-	50	
			T2- G+	-	-	100	
$ m V_{GT}$	Gate trigger voltage	$V_D = 12 V$ $R_L = 100 \Omega$	T2+ G+	-	-	1.5	V
			T2+ G-	-	-	1.5	
			T2- G-	-	-	1.5	
			T2- G+	-	-	1.8	
I <sub>H</sub>	Holding current	I <sub>T</sub> = 500 mA, I <sub>GT</sub> = 50 mA		-	-	50	mA
<b>V</b> <sub>T</sub>	On-state voltage	I <sub>T</sub> = 22.5 A		-	-	1.6	V

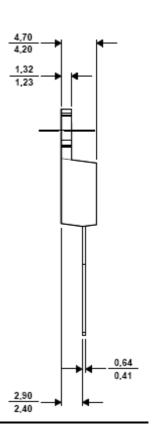


### **BTA16 Series**

### **MECHANICAL DATA CASE TO-220**

TO220





Pin 1 :	Anode 1
Pin 2 :	Anode 2
Pin 3 :	Gate

#### Revised August 2012

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