

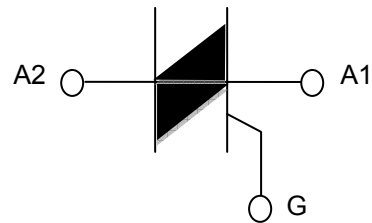
## BTA12 Series

### TRIAC

#### FEATURE

Glass passivated triacs in a plastic TO220 package. The bta12 series is suitable for general purpose. They can be used as an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits... or for phase operation in light dimmers, motor speed controllers,...

Compliance to RoHS.



#### ABSOLUTE MAXIMUM RATINGS

Symbol	Ratings	Value		Unit
		BTA12-600B	BTA12-800B	
$V_{DRM}$	Repetitive peak off-state voltage	600	800	V
$V_{RRM}$	Repetitive peak reverse voltage	600	800	
$I_{T(RMS)}$	RMS on-state current	12		A
$I_{TSM}$	Non-repetitive peak on-state current	120		A
$T_{stg}$	Storage temperature range	-45 to +150		°C
$T_j$	Operating junction temperature	110		°C

#### THERMAL CHARACTERISTICS

Symbol	Ratings	Value	Unit
$R_{\theta j-c}$	Thermal resistance junction to case	$\leq 2.3$	°C/W
$R_{\theta j-a}$	Thermal resistance junction to ambient	$\leq 60$	

## BTA12 Series

### ELECTRICAL CHARACTERISTICS

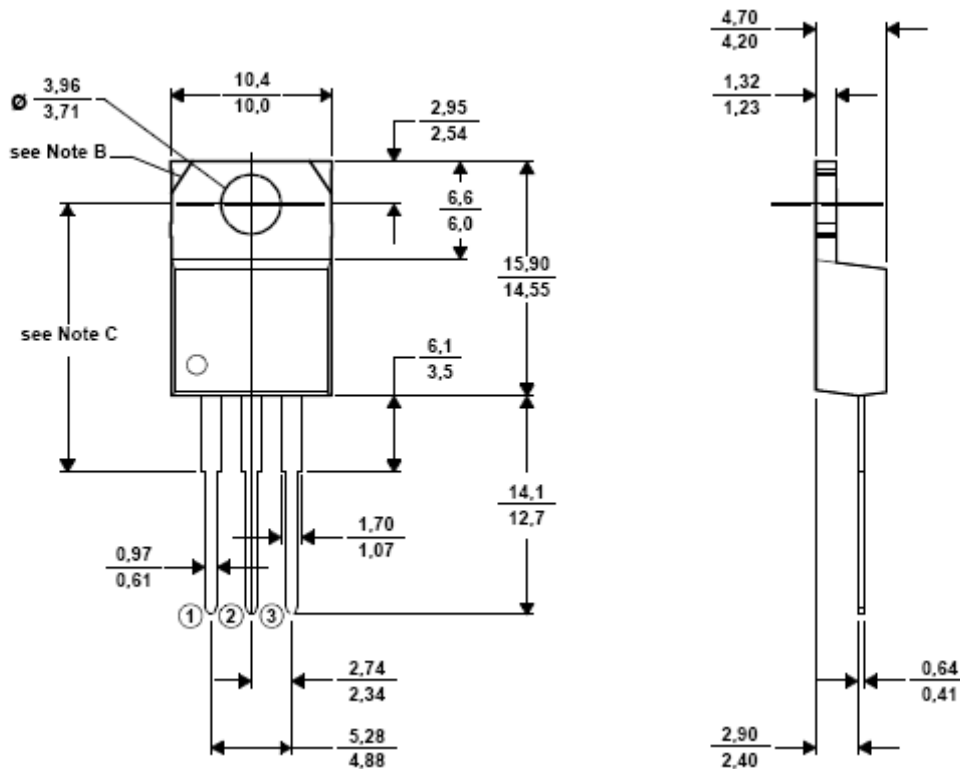
TC=25°C unless otherwise noted

Symbol	Ratings	Test Condition(s)		Min	Typ	Max	Unit
$V_{DRM}$	Repetitive peak off-state voltage	$I_D = 0.1 \text{ mA}$	BTA12-600B	600	-	-	V
			BTA12-800B	800	-	-	
$V_{RRM}$	Repetitive peak reverse voltage	$I_D = 0.5 \text{ mA}$	BTA12-600B	600	-	-	V
			BTA12-800B	800	-	-	
$I_{GT}$	Gate trigger current	$V_D = 12 \text{ V}$ $R_L = 100 \Omega$	T2+ G+	-	-	25	mA
			T2+ G-	-	-	50	
			T2- G-	-	-	50	
			T2- G+	-	-	100	
$V_{GT}$	Gate trigger voltage	$V_D = 12 \text{ V}$ $R_L = 100 \Omega$	T2+ G+	-	-	1.5	V
			T2+ G-	-	-	1.5	
			T2- G-	-	-	1.5	
			T2- G+	-	-	1.8	
$I_H$	Holding current	$I_T = 100 \text{ mA}, I_{GT} = 20 \text{ mA}$		-	-	15	mA
$V_T$	On-state voltage	$I_T = 17 \text{ A}$		-	-	1.55	V

## BTA12 Series

### MECHANICAL DATA CASE TO-220

TO220



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

Revised August 2012

Information furnished is believed to be accurate and reliable. However, Comset Semiconductors assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may results from its use. Data are subject to change without notice. Comset Semiconductors makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Comset Semiconductors assume any liability arising out of the application or use of any product and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Comset Semiconductors' products are not authorized for use as critical components in life support devices or systems.