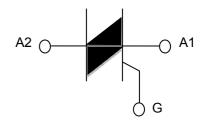


BTA12 Series

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 phaseoperation in light dimmers, motorspeed 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 _{RRM}	Repetitive peak reverse voltage	600	800	V	
I _{T(RMS)}	RMS on-state current	12		Α	
I _{TSM}	Non-repetitive peak on-state current 120		А		
T _{stg}	Storage temperature range	-45 to +150		°C	
Tj	Operating junction temperature	110		°C	

THERMAL CHARACTERISTICS

Symbol	Ratings Value		Unit	
R _{∂j-c}	Thermal resistance junction to case	on to case ≤ 2.3 °C/W		
R _{∂j-a}	Thermal resistance junction to ambient	≤ 60	C/VV	



BTA12 Series

ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

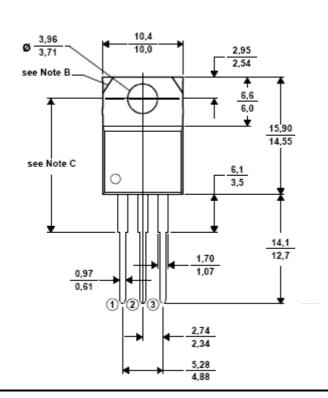
Symbol	Ratings	Test Condition(s)		Min	Тур	Max	Unit
V_{DRM}	Repetitive peak off-state voltage	I _D = 0.1 mA	BTA12-600B	600	-	-	V
			BTA12-800B	800	-	-	
V _{RRM}	Repetitive peak reverse voltage	I _D = 0.5 mA	BTA12-600B	600	-	-	
			BTA12-800B	800	-	-	
I _{GT}	Gate trigger current	$V_{\rm D} = 12 \text{ V}$ $R_{\rm L} = 100 \Omega$	T2+ G+	-	-	25	mA
			T2+ G-	-	-	50	
			T2- G-	-	-	50	
			T2- G+	-	-	100	
\mathbf{V}_{GT}	Gate trigger voltage	$V_{\rm D} = 12 \text{ V}$ $R_{\rm L} = 100 \Omega$	T2+ G+	-	-	1.5	V
			T2+ G-	-	-	1.5	
			T2- G-	-	-	1.5	
			T2- G+	_	-	1.8	
I _H	Holding current	I _T = 100 mA, I _{GT} = 20 mA		-	-	15	mA
V _T	On-state voltage	I _T = 17 A		-	-	1.55	V

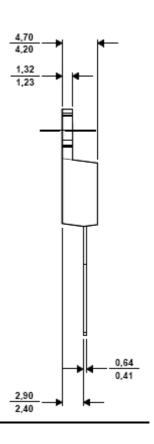


BTA12 Series

MECHANICAL DATA CASE TO-220







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

Revised August 2012

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