

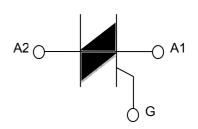
BTA16 Series

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 _{DRM}	Repetitive peak off-state voltage	600	800	V	
V _{RRM}	Repetitive peak reverse voltage	600	800		
I _{T(RMS)}	RMS on-state current	16		А	
I _{TSM}	Non-repetitive peak on-state current	160		А	
T _{stg}	Storage temperature range	-45 to +150		°C	
Tj	Operating junction temperature 110		110	°C	

THERMAL CHARACTERISTICS

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



BTA16 Series

ELECTRICAL CHARACTERISTICS

TC=25°C unless otherwise noted

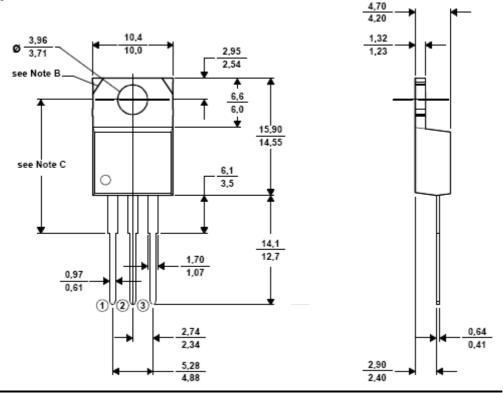
Symbol	Ratings	Test Condition(s)		Min	Тур	Мах	Unit
	Repetitive peak off- state voltage	I _D = 0.1 mA	BTA16-600B	600	-	-	V
			BTA16-800B	800	-	-	
V _{RRM}	Repetitive peak reverse voltage	I _D = 0.5 mA	BTA16-600B	600	-	-	
			BTA16-800B	800	-	-	
I _{GT}	Gate trigger current	V _D = 12 V R _L = 100 Ω	T2+ G+	-	-	50	mA
			T2+ G-	-	-	50	
			T2- G-	-	-	50	
			T2- G+	-	-	100	
V _{GT}	Gate trigger voltage	V _D = 12 V R _L = 100 Ω	T2+ G+	-	-	1.5	V
			T2+ G-	-	-	1.5	
			T2- G-	-	-	1.5	
			T2- G+	-	-	1.8	
I _H	Holding current	I _T = 500 mA, I _{GT} = 50 mA		-	-	50	mA
V _T	On-state voltage	I _T = 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

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