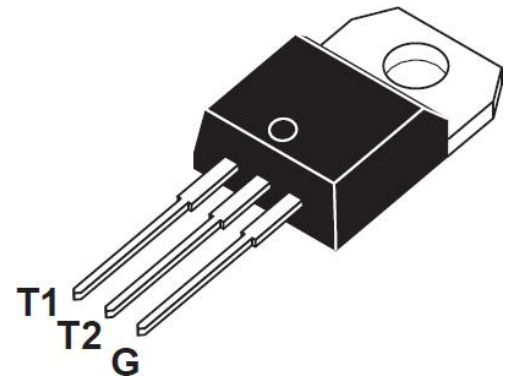


Triacs sensitive gate

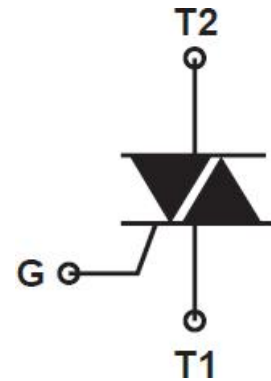
BTA312-600B

GENERAL DESCRIPTION

Passivated, sensitive gate triacs in a plastic envelope, intended for use in general purpose bidirectional switching and phase control applications, where high sensitivity is required in all four quadrants.



T0-220



ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Typ	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}	600	V
RMS on-state current	$I_{T(RMS)}$	12	A
Non-repetitive peak on-state current	I_{TSM}	100	A
Max.Operating Junction temperature	T_j	-40--+125	°C
Storage Temperature	T_{stg}	-40--+150	°C

ELECTRICAL CHARACTERISTICS (Ta = 25°C)

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Repetitive peak off-state voltages	V_{DRM} V_{RRM}		600		—	V
RMS on-state current	$I_{T(RMS)}$	Full sine wave, $T_{mb} \leq 107^\circ C$	—	12	—	A
On-state voltage	V_T	$I_T = 17A$	—	1.3	1.55	V
Holding current	I_H	$V_D = 12 V; I_{GT} = 0.1 A$	—	—	50	mA
Gate trigger current	T2+G+	$V_D = 12V, I_T = 0.1A$	—	12	50	mA
	T2+G-		—	14	50	
	T2-G-		—	25	50	
Latching current	T2+G+	$V_D = 12 V; I_{GT} = 0.1 A$	—	—	70	mA
	T2+G-		—	—	80	
	T2-G-		—	—	70	
Gate trigger voltage	V_{GT}	$V_D = 12 V; I_T = 0.1 A$	—	—	1.6	V