



BTA212-600B

TRIACS SENSITIVE GATE

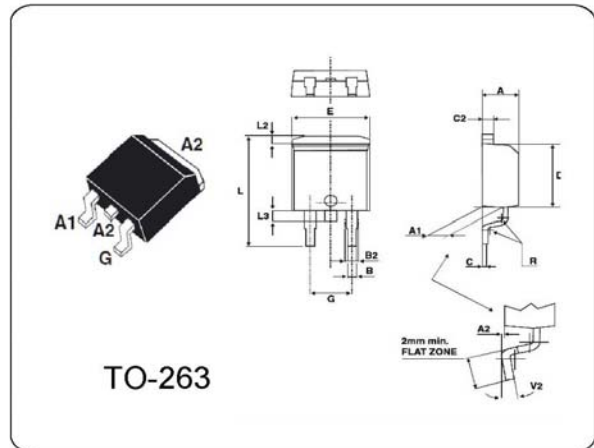
GENERAL DESCRIPTION

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.

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}	95	A
Max. Operating Junction Temperature	T_j	110	°C
Storage Temperature	T_{stg}	-45~150	°C





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ELECTRICAL CHARACTERISTICS

(Ta = 25 C)

Symbol	Ratings	Test Conditions	Min	Typ	Max	Unit	
V_{DRM}	Repetitive peak off-state voltages		—	600	—	V	
V_{RRM}							
$I_{T(RMS)}$	RMS on-state current	full sine wave $T_{mb} \leq 107\text{ }^{\circ}\text{C}$	—	12	—	A	
V_T	On-state voltage	$I_T = 15\text{ A}$	—	1.4	1.65	V	
I_H	Holding current	$V_D = 12\text{ V}; I_{GT} = 0.1\text{ A}$	—	—	60	mA	
I_{GT}		$V_D = 12\text{ V}$ $I_T = 0.1\text{ A}$	T2+G+	—	—	50	mA
			T2+G-	—	—	50	
			T2-G-	—	—	50	
			T2-G+	—	—	100	
I_L	Latching current	$V_D = 12\text{ V}$ $I_{GT} = 0.1\text{ A}$	T2+G+	—	—	60	mA
			T2+G-	—	—	90	
			T2-G-	—	—	60	
			T2-G+	—	—	90	
V_{GT}	Gate trigger voltage	$V_D = 12\text{ V}; I_T = 0.1\text{ A}$	—	0.7	1.5	V	

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