

Triacs sensitive gate

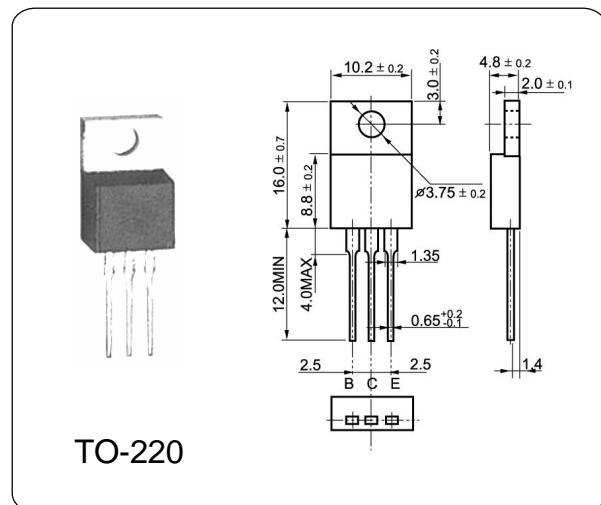
BT138-600E

GENERAL DESCRIPTION

Glass 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


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; $T_{mb} \leq 107$ °C	—	12	—	A
On-state voltage	V_T	$I_T = 15$ A	—	1.4	1.65	V
Holding current	I_H	$V_D = 12$ V; $I_{GT} = 0.1$ A	—	—	30	mA
Gate trigger current	T2+G+	I_{GT} $V_D = 12$ V; $I_T = 0.1$ A	—	—	10	mA
	T2+G-		—	—	10	
	T2-G-		—	—	10	
	T2-G+		—	—	25	
Latching current	T2+G+	I_L $V_D = 12$ V; $I_{GT} = 0.1$ A	—	—	30	mA
	T2+G-		—	—	40	
	T2-G-		—	—	30	
	T2-G+		—	—	40	
Gate trigger voltage	V_{GT}	$V_D = 12$ V; $I_T = 0.1$ A	—	0.7	1.5	V

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