



Triacs sensitive gate

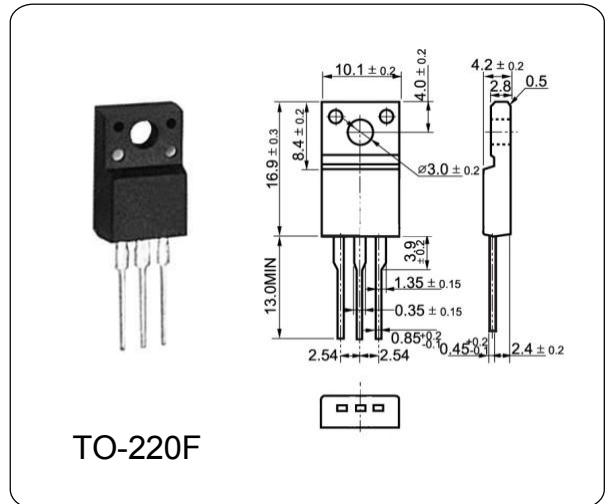
BT137X-600F

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	$I_{T(RMS)}$	8.0	A
Non-repetitive peak on-state current	I_{TSM}	65	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; $T_{mb} \leq 107^\circ\text{C}$	—	8	—	A
On-state voltage	V_T	$I_T = 10\text{A}$	—	1.3	1.65	V
Holding current	I_H	$V_D = 12\text{V}; I_{GT} = 0.1\text{A}$	—	2.2	15	mA
Gate trigger current	T2+G+	I_{GT} $V_D = 12\text{V}; I_T = 0.1\text{A}$	—	5.0	25	mA
	T2+G-		—	8.0	25	
	T2-G-		—	11	25	
	T2-G+		—	30	70	
Latching current	T2+G+	I_L $V_D = 12\text{V}; I_{GT} = 0.1\text{A}$	—	7.0	30	mA
	T2+G-		—	16	45	
	T2-G-		—	5.0	30	
	T2-G+		—	7.0	45	
Gate trigger voltage	V_{GT}	$V_D = 12\text{V}; I_T = 0.1\text{A}$	—	0.7	1.5	V