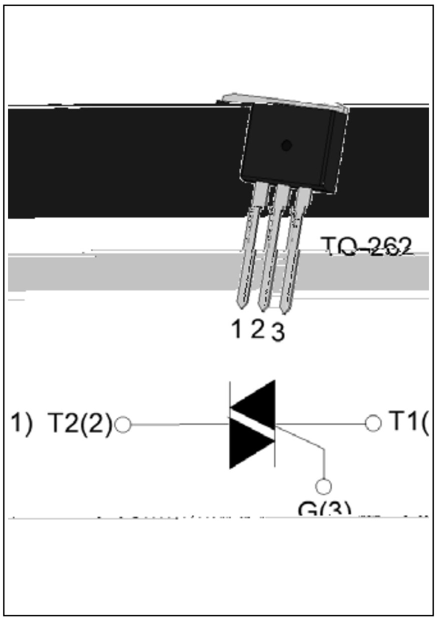
JST137D-600E 8A TRIAC

Rev.A.1.0

DESCRIPTION:

The JST137D-600E triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. Package TO-262 is RoHS compliant.



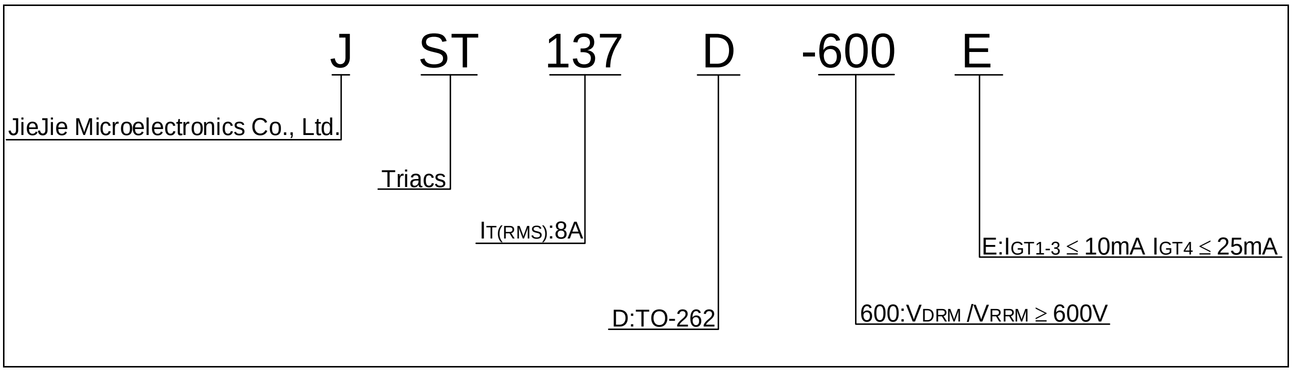
MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	8	A
V_{DRM} / V_{RRM}	600	V
I_{GT} / / /	10/10/10/25	mA

ABSOLUTE MAXIMUM RATINGS

Parameter		**Symbol**	**Value**	**Unit**
Storage junction temperature range		T_{stg}	-40-150	
Operating junction temperature range		T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)		V_{DRM}	600	V
Repetitive peak reverse voltage (T_j=25)		V_{RRM}	600	V
RMS on-state current ($T_C \leq 100$)		$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current (full cycle , t_p=20ms , T_j=25)		I_{TSM}	65	A
Non repetitive surge peak on-state current (full cycle , t_p=16.6ms , T_j=25)			72	
I^2t value for fusing (t_p=10ms , T_j=25)		I^2t	21	A^2s
Critical rate of rise of on-state current (I_G=2 I_{GT} , f=100Hz , T_j=125)	- -	dI/dt	80	A/μs
			40	
Peak gate current (t_p=20μs , T_j=125)		I_{GM}	4	A
Average gate power dissipation (T_j=125)		$P_{G(AV)}$	0.5	W
Peak gate power		P_{GM}	10	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)		V_{pp}	4	kV

ORDERING INFORMATION



J ST 137 D -600 E

J: JieJie Microelectronics Co., Ltd.

ST: Triacs

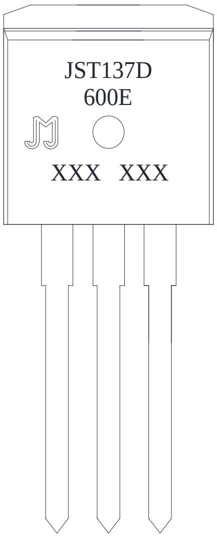
137: $I_{T(RMS)}$:8A

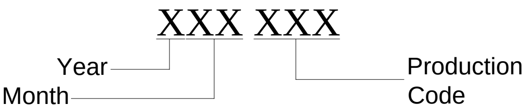
D: D:TO-262

-600: 600:V_{DRM} /$V_{RRM} \geq$ 600V

E: E:$I_{GT1\text{-}3} \leq$ 10mA $I_{GT4} \leq$ 25mA

MARKING





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