JST137E-600D 8A TRIAC

Rev.A.1.2

The JST137E-600D 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-263 is RoHS compliant.

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value	Unit
I_{GT}	V_D=12V R_L=33Ω	- -	5 MAX.	mA . re ET 56.8

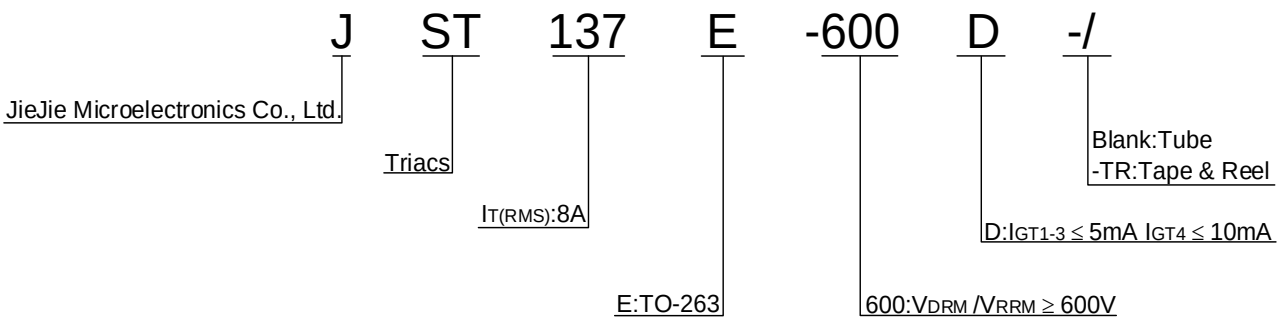

J
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137
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-/
JieJie Microelectronics Co., Ltd.
Triacs
IT(RMS):8A
E:TO-263
600:VDRM /VRRM ≥ 600V
D:IGT1-3 ≤ 5mA IGT4 ≤ 10mA
Blank:Tube
-TR:Tape & Reel

FIG.1: Maximum power dissipation versus RMS on-state current

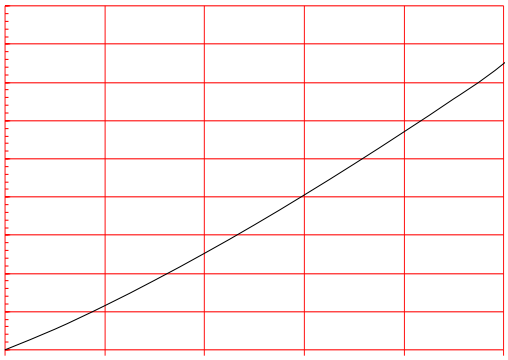


FIG.2: RMS on-state current versus case temperature

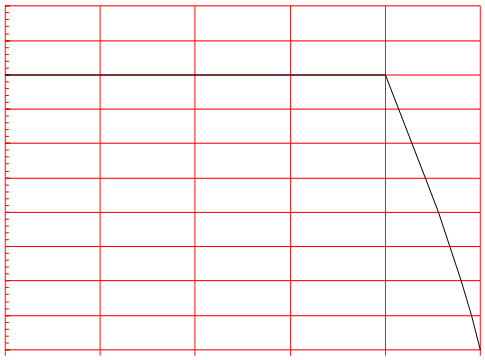


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4, copper thickness: 35μm) (full cycle)

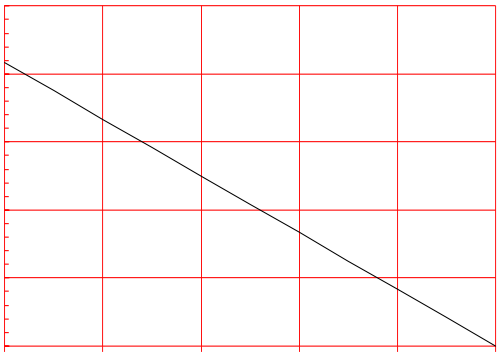


FIG.4: Surge peak on-state current versus number of cycles

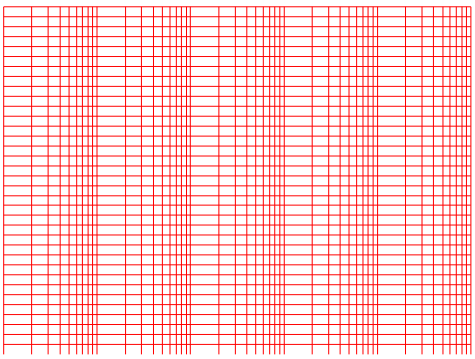


FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

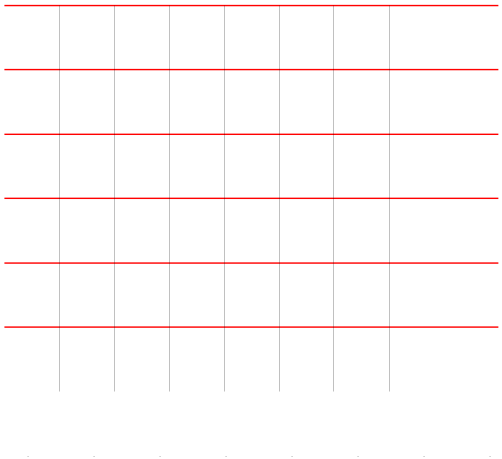
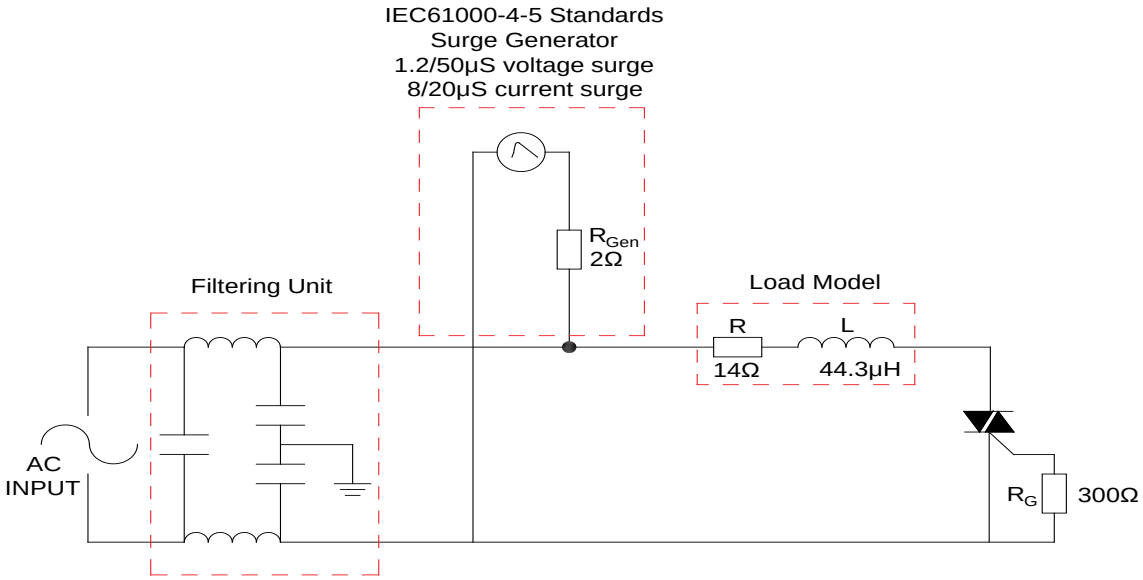


FIG.8: Test circuit for inductive and resistive loads to IEC-61000-4-5 standards

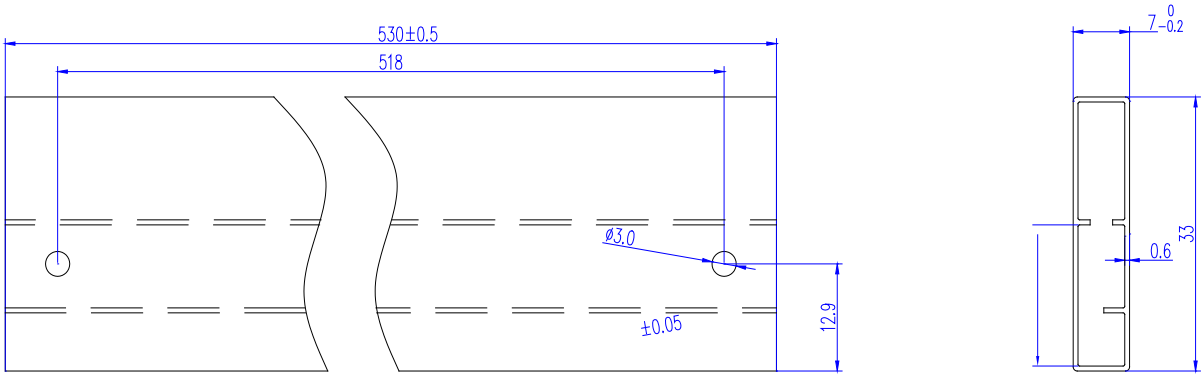


Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
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JST137E-600D	600	5	10	TO-263	50	Tube
JST137E-600D-TR					800	Tape & Reel

Document Revision History

Date	[redacted]	Changes

Rev. /41 .1c05 Tw 10.56 0 0 10.C -04 279.36 Tm [(Re)4.20 sQAsQAs


530±0.5
518
Ø3.0
±0.05
12.9
7 0 -0.2
0.6
33

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