

DESCRIPTION:

The JST137E-800D 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.

MAIN FEATURES

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 ($T_j=25^\circ\text{C}$)	V_{DRM}	800	V
Repetitive peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	800	V

RMS on-state current ($T_c 0100$

Te-12 (014-78-120681256211334118718602)Tw 0.33

ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value	Unit
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I_{GT}	$V_D=12V$ $R_L=33$	-		
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ORDERING INFORMATION

<u>J</u>	<u>ST</u>	<u>137</u>	<u>E</u>	<u>-800</u>	<u>D</u>	<u>-/</u>
JieJie Microelectronics Co., Ltd.	Triacs	<u>IT(RMS):8A</u>	<u>E:TO-263</u>	<u>800:VDRM /VRRM 1800V</u>	<u>D:IGT1-3 05mA IGT4 010 mA</u>	Blank:Tube -TR:Tape & Reel

MARKING

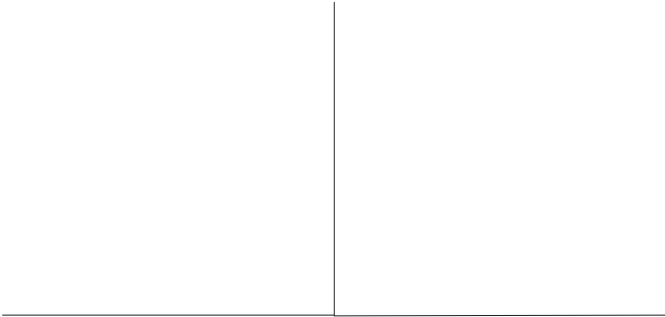


FIG.1: Maximum power dissipation versus RMS
on-state current

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

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

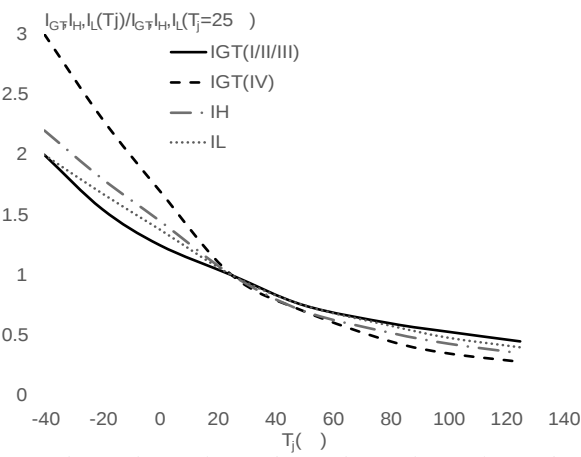


FIG.8: Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



ORDERING INFORMATION

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

Document Revision History

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Sept.11, 2025	A.1.1	Revise dI/dt
Oct.21, 2025	A.1.2	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA

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