



JST12E-600CW 12A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST12E-600CW 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. JST12E-600CW snubberless triac is especially recommended for use in AC motor speed control applications.



Peak pulse voltage (T _j =25 ; non-repetitive, off-state; FIG.8)	V _{pp}	4.5	kV
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ELECTRICAL CHARACTERISTICS (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value	Unit
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ORDERING INFORMATION

J	ST	12	E	-600	CW	-/
JieJie Microelectronics Co., Ltd.	Triacs					Blank:Tube -TR:Tape &Reel
	IT(RMS):12A					
		E:TO-263			CW:IGT1-3 35mA	
				600:VDRM /VRRM	600V	

MARKING

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

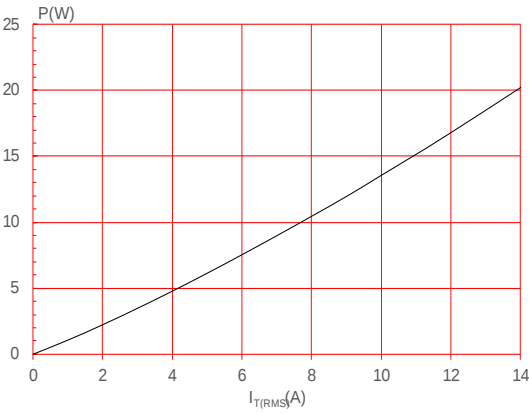


FIG.2: RMS on-state current versus case temperature



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

ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			
JST12E-600CW	600	35	TO-263	50	Tube
JST12E-600CW-TR				800	Tape& Reel

Document Revision History

Date	Revision	Changes
Apr.11, 2023	A.1.0	Last updated
Oct.20, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

PACKAGE MECHANICAL DATA

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	9.90		10.20	0.390		0.402
B	14.70		15.80	0.579		0.622
C	9.40		9.60	0.370		0.378
D	2.40			0.094		
E	1.20		1.50	0.047		0.059
F	0.75		0.85	0.029		0.033

DELIVERY MODE

