



JST12C-600CW 12A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST12C-600CW triac is suitable for general purpose AC

Peak pulse voltage ($T_j=25$; non-repetitive, off-state; FIG.7)	V_{pp}	4.5	kV
--	----------	-----	----

ELECTRICAL CHARACTERISTICS (at $T_j=25$ unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33$	- -	MAX.	35	mA
V_{GT}		- -	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k$	- -	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	-	MAX.	50	mA
				60	
I_H	$I_T=500mA$		MAX.	35	mA
dV/dt	$V_D=400V$ Gate Open $T_j=125$		MIN.	1000	V/s
$(dI/dt)_c$	$G9$ GWF $j=125V$ 7		MIN.	10	A/ms
t_{on}	$I_G=40mA$ $I_A=200mA$ $I_R=20mA$ $T_j=25$		TYP.	3	s
t_{off}				30	

STATIC CHARACTERISTICS

Symbol

ORDERING INFORMATION

<u>J</u>	<u>ST</u>	<u>12</u>	<u>C</u>	<u>-600</u>	<u>CW</u>
JieJie Microelectronics Co., Ltd.	Triacs				
	<u>IT(RMS):12A</u>				
		<u>C:TO-220C</u>			
				<u>600:VDRM /VRRM 1600V</u>	<u>CW:IGT1-3 035mA</u>

MARKING

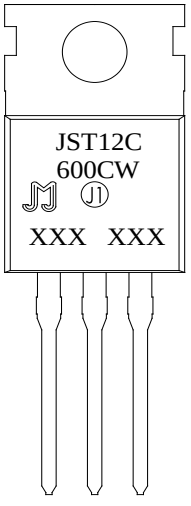
 The diagram shows a TO-220C package with the following markings: JST12C, 600CW, the JieJie logo (a stylized 'J' and 'J' inside a circle), and two sets of three characters 'XXX XXX'.	XXX XXX Year Month Production Code
--	---

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

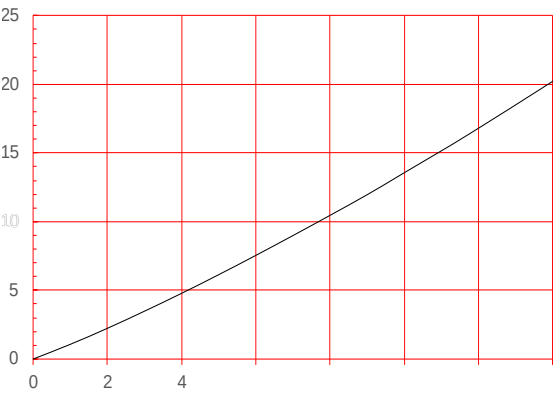


FIG.2: RMS on-state current versus case temperature

JST12C-600CW

Jie Jie M

JST12C-600CW

JST12C-600CW

Jie Jie M

Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of use without consideration for such information nor use beyond it. Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information. This document supersedes and replaces all information previously supplied.



is a registered trademark of Jiangsu JieJie Microelectronics Co., Ltd.

Copyright © 2025 Jiangsu JieJie Microelectronics Co., Ltd. All rights reserved.