

600CW 6A TRIAC

Rev.A.1.1

DESCRIPTION:

JST06C-600CW triac is suitable for general purpose AC

It can be used as an ON/OFF function in

circuits such as heating regulation, induction motor

circuits, for phase control operation in light

motor speed controllers. JST06C-600CW

silicon triac is especially recommended for use on

resistive loads. From T2 terminals to external heatsink.

JST06C-600CW is RoHS compliant.

FEATURES

ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Maximum peak off-state voltage ($T_j=25^\circ\text{C}$)	V_{DRM}	600	V
Maximum peak reverse voltage ($T_j=25^\circ\text{C}$)	V_{RRM}	600	V
Maximum average on-state current ($T_C=111^\circ\text{C}$)	$I_{T(RMS)}$	6	A
Non-repetitive surge peak on-state current ($t_p=20\text{ms}$, $T_j=25^\circ\text{C}$)	I_{TSM}	65	A
Non-repetitive surge peak on-state current ($t_p=16.6\text{ms}$, $T_j=25^\circ\text{C}$)		72	
Maximum energy for fusing ($t_p=10\text{ms}$, $T_j=25^\circ\text{C}$)	I^2t	21	A^2s
Maximum rate of rise of on-state current ($T_j=125^\circ\text{C}$, $f=100\text{Hz}$)	di/dt	100	$\text{A}/\mu\text{s}$
Peak gate current ($t_p=20\mu\text{s}$, $T_j=125^\circ\text{C}$)	I_{GM}	4	A

Average gate power dissipation ($T_j=125^\circ\text{C}$) $P_{G(AV)}$ 0.5 W

Peak pulse voltage (T _j =25 ; non-repetitive, off-state; FIG.7)	V _{pp}	3	kV
---	-----------------	---	----

ELECTRICAL CHARACTERISTICS (S_j=15 unless otherwise specified)

Symbol Test Condition Quadrant

ORDERING INFORMATION

_____ J ST 06 C -600 CW

FIG.1:

ORDERING INFORMATION

Order code	Voltage V _{DRM} /V _{RRM} (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
		- -			

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.