



JST06C-600CW 6A TRIAC

Rev.A.1.1

DESCRIPTION:

The JST06C600C triac is suitable for general purpose AC switching. It can be used in applications such as heating regulation and starting circuits, for phase control operation in dimmers, motor speed controllers, and other applications. From T2 terminals to external heatsink. Package TO-220C.

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 ( $T_j=25^\circ\text{C}$ )	$V_{DRM}$	600	V
Repetitive peak reverse voltage ( $T_j=25^\circ\text{C}$ )	$V_{RRM}$	600	V
RMS on-state current ( $T_C=111^\circ\text{C}$ )	$I_{T(RMS)}$	6	A
Nonrepetitive surge peak on-state current (full cycle, $t_p=20\text{ms}$ , $T_j=25^\circ\text{C}$ )	$I_{TSM}$	65	A
Nonrepetitive surge peak on-state current (full cycle, $t_p=16.6\text{ms}$ , $T_j=25^\circ\text{C}$ )		72	
$I^2t$ value for fusing ( $t_p=10\text{ms}$ , $T_j=25^\circ\text{C}$ )	$I^2t$	21	$\text{A}^2\text{s}$
On-state current rise time ( $I_G=2 \times I_{GT}$ , $f=100\text{Hz}$ , $T_j=125^\circ\text{C}$ )	$d$	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

W i s s i p a t i o n

Peak pulse voltage ( $T_j=25^\circ\text{C}$ ; non-repetitive; off-state; FIG.7)	$V_{pp}$	3	kV
--	----------	---	----

ELECTRICAL CHARACTERISTICS (T<sub>j</sub>=25°C unless otherwise specified)

Symbol      Test Condition      Quadrant

unj

5a'F€

ORDERING INFORMATION

\_\_\_\_\_ J ST 06 C -600 C

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 subject to change without notice. This document is the property of JieJie Microelectronics Co., Ltd. and is loaned to you for your internal use only. It is not to be distributed outside your organization. All rights reserved. JieJie Microelectronics Co., Ltd. is a registered trademark of JieJie Microelectronics Co., Ltd. in the PRC and other countries.