

**JST08C-800B 8A TRIAC**

Rev.A.1.1

DESCRIPTION:

The JST08C-800B 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. From T2 terminals to external heatsink. Package TO-220C 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)		V _{DRM}	800	V
Repetitive peak reverse voltage (T _j =25)		V _{RRM}	800	V
RMS on-state current (T _c 108)		I _{T(RMS)}	8	A
Non repetitive surge peak on-state current (full cycle , t _p =20ms , T _j =25)		I _{TSM}	80	A
Non repetitive surge peak on-state current (full cycle , t _p =16.6ms , T _j =25)			88	
I ² t value for fusing (t _p =10ms , T _j =25)		I ² t	32	A ² s
Critical rate of rise of on-state current (I _G =2 × I _{GT} , f=100Hz , T _j =125)	-	dI/dt	100	A s
	-		50	
Peak gate current (t _p =20 s , T _j =125)		I _{GM}	4	A
Average gate power dissipation (T _j =125)		P _{G(AV)}	0.5	W
Peak gate power		P _{GM}	10	W
Peak pulse voltage (T _j =25 ; non-repetitive,off-state;FIG.7)		V _{PP}	1	kV

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

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33$	- -	MAX.	50	mA
				70	
V_{GT}		ALL	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k$	ALL	MIN.	0.2	V
I_L	$I_G=1.2I_{GT}$	- -	MAX.	50	mA
				100	
I_H	$I_T=200mA$		MAX.	60	mA
dV/dt	$V_D=540V$ Gate Open $T_j=125$		MIN.	1000	V s
$(dV/dt)_c$	$(dI/dt)_c=3.5A/ms$, $T_j=125$		MIN.	12	

ORDERING INFORMATION

J	ST	08	C	-800	B
JieJie Microelectronics Co., Ltd.	Triacs	IT(RMS):8A	C:TO-220C	800:VDRM /VRRM 800V	B:IGT1-3 25mA IGT4 50mA

MARKING

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



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

ORDERING INFORMATION

Order code	Voltage V _{DRM} /V _{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		-	-			
JST08C-800B	800	50	70	TO-220C	50	Tube

PACKAGE MECHANICAL DATA



