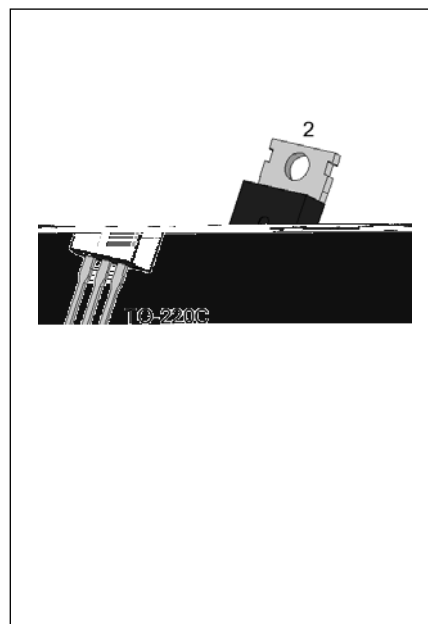


DESCRIPTION:

The JST08C-600C 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

Symbol	Value	Unit
$I_{T(RMS)}$	8	A
V_{DRM}/V_{RRM}	600	V
$I_{GT} / / /$	25/25/25/50	mA

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}	600	V
Repetitive peak reverse voltage (T _j =25℃)		V _{RRM}	600	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 =2I _{GT} , f=100Hz , T _j =125℃)	-	di/dt	80	A/μs
	-		40	
Peak gate current (t _p =20μs , 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 (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I _{GT}	V _D =12V R _L =33Ω	- -	MAX.	25	mA
				50	
V _{GT}		ALL	MAX.	1	V
V _{GD}	V _D =V _{DRM} T _J =125 R _L =3.3kΩ	ALL	MIN.	0.2	V
I _L	I _G =1.2I _{GT}	- -	MAX.	40	mA
				80	
I _H	I _T =200mA		MAX.	30	mA

ORDERING INFORMATION /Spanw ()Tj E3C ET /lc -0.005TT5j 1 J81 1 J8 q 5flc -0.0

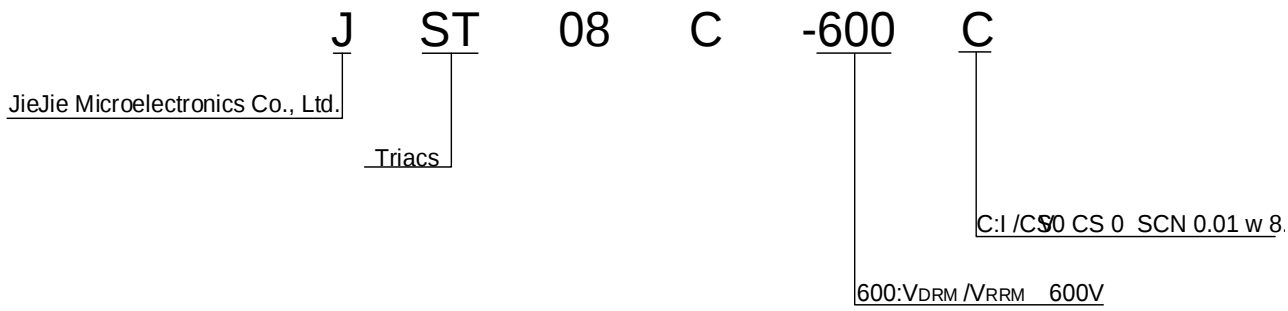


FIG.1: Maximum power dissipation versus RMS on-state current

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

