

**JST08H-600B 8A TRIAC**

Rev.A.1.1

The JST08H-600B 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-251 is RoHS compliant.

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 ($T_c = 91$)	$I_{T(RMS)}$	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^2t value for fusing ($t_p=10ms$, $T_j=25$)	I^2t	32	A^2s
Critical rate of rise of on-state current ($I_G=2 \times I_{GT}$, $f=100Hz$, $T_j=125$)	-	100	$A/\mu s$
	-	50	
Peak gate current ($t_p=20\mu s$, $T_j=125$)	I_{GM}	4	A

Average gate power dissipation ($T_j=125$)

($T_j=25$ unless otherwise specified)

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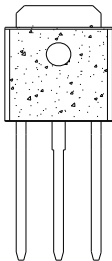
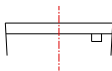
Symbol	Test Condition	mA	Quadrant	Value		Unit
I_{GT}	$V_D=12V$ $R_L=33$		- -	MAX.	50	mA
					70	
V_{GT}			ALL	MAX.	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125$ $R_L=3.3k$		ALL	MIN.	0.2	V

I_L I

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



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



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