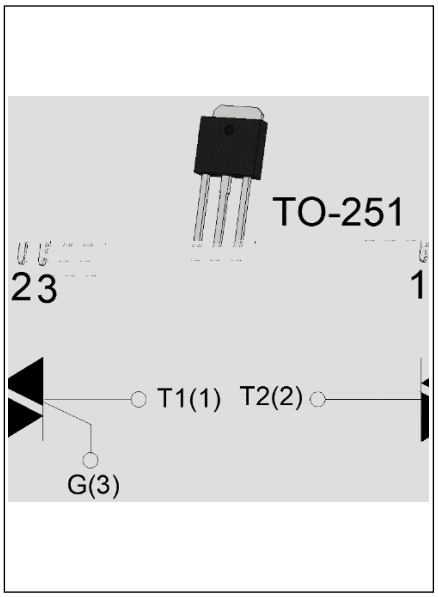
DESCRIPTION:

The JST08H-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-251 is RoHS compliant.



MAIN FEATURES

Symbol	Value	Unit
$I_{T(RMS)}$	8	A
V_{DRM} /V_{RRM}	800	V
I_{GT} / / /	50/50/50/70	mA

ABSOLUTE MAXIMUM RATINGS

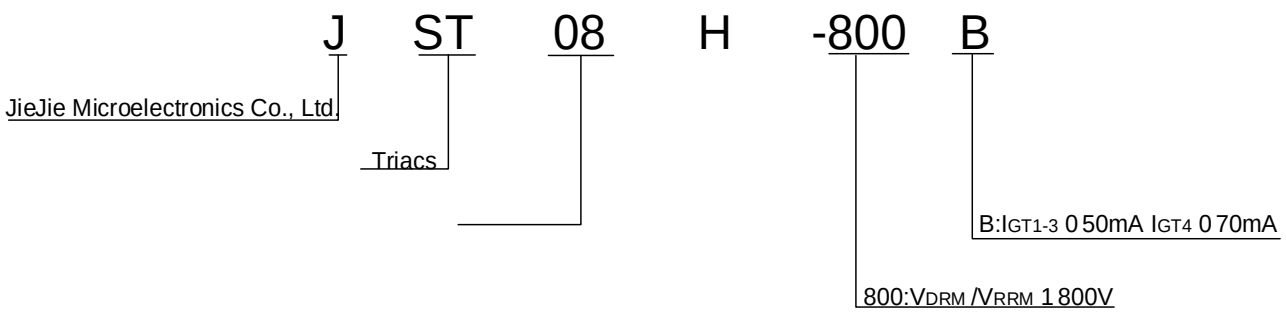
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current (T_C 091)	$I_{T(RMS)}$	8	A
Non repetitive surge peak on-state current (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 hI $_{GT}$, f=100Hz , T_j=125) -	dI/dt	100	A/μs
Critical rate of rise of on-state current (I_G=2 hI $_{GT}$, f=100Hz , T_j=125) -		50	
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}	1.5	kV

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

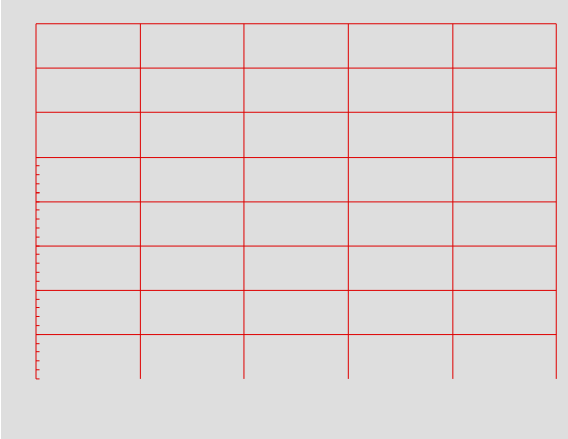
I_{GT}	V_D=12V R_L=33Ω	- -	MAX.	50	mA
				7 0	
V_{GT}		ALL	MAX.	1	V
V_{GD}	V_D=V_{DRM} T_j=125 R_L=3.3kΩ	ALL	MIN.	0.2	V
I_L	I_G=1.2I_{GT}	- -	MAX.	50	mA
				100	
I_H	I_T=200mA		MAX.	60	mA
dV/dt	V_D=540V Gate Open T_j=125		MIN.	1000	V/μs
(dV/dt)c	(dI/dt)c=3.5A/ms, T_j=125		MIN.	12	V/μs
t_{on}	I_G=80mA I_A=400mA I_R=40mA T_j=25		TYP.	5	μs
t_{off}				30	

STATIC CHARAM Ƭ S |

ORDERING INFORMATION



Maximum power dissipation versus RMS on-state current



RMS on-state current versus case temperature

‡ R°$À6 '™ 0K$R°$À6 0 E ÂBÀ –'€ò 0Hv ÂBÀ –'€@ '€ò 0F@ P $À6 –'€ t 0Fð\$, ` 0F@ P $À6 @ 0F@$\$ ` T J .`\$, ` (P! d L ` Yí @! E Â
) L O W H U L Q J 8 Q L W
, (& 6 W D Q G DGUV
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ORDERING INFORMATION

Date	Revision	Changes
Apr.14, 2023	A.1.0	Last updated
Oct.20.0		

PACKAGE MECHANICAL DATA