JST04H-800SW 4A TRIAC

Rev.A.1.2

DESCRIPTION:

The JST04H-800SW triac is suitable for general purpose AC switching. It can be used as ON/OFF function in applications such as heating regulation, induction starting circuits for phase control operation in light dimmers, motor speed controllers. JST04H-800SW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU I/O port. For T2 terminal connected to the heatsink. Package TO-251 is RoHS compliant.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

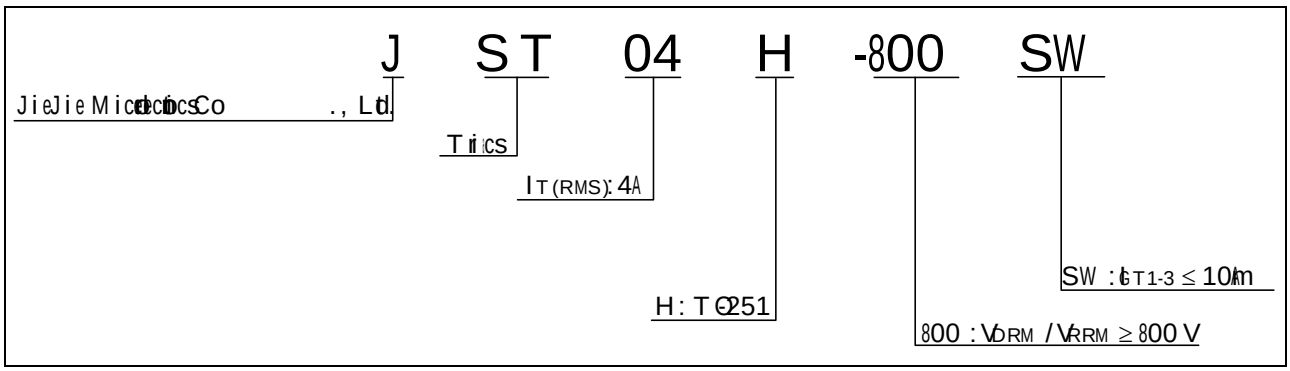
Parameter	Symbol	Value	Unit
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current ($T_C \leq 97$)	$I_{T(RMS)}$	4	A
Non repetitive surge peak on-state current (full cycle, t_p=20ms, T_j=25)	I_{TSM}	40	A
Non repetitive surge peak on-state current (full cycle, t_p=16.6ms, T_j=25)	I_{TSM}	44	A
I^2t value for fusing (t_p=10ms, T_j=25)	I^2t	8	A^2s

Peak gate power	P_{GM}	10	W
Peak gate voltage (Tj=25 ; non-repetitive, of ; FIG.7)	V_p	3	V

ELECTRICAL CHARACTERISTICS (Tj=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value	Unit
I_{GT}	V_D			

ORDERING INFORMATION



MARKING

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

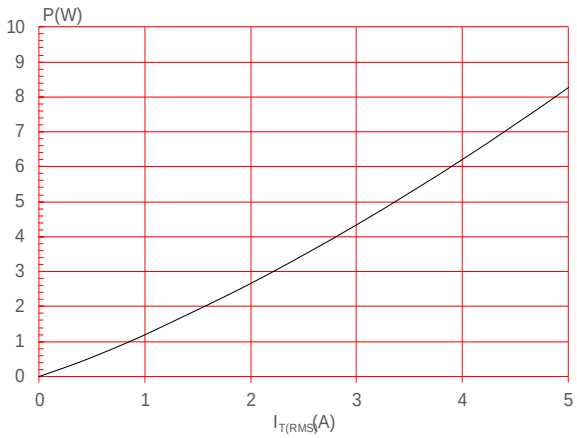


FIG.2: RMS on-state current vs case temperature

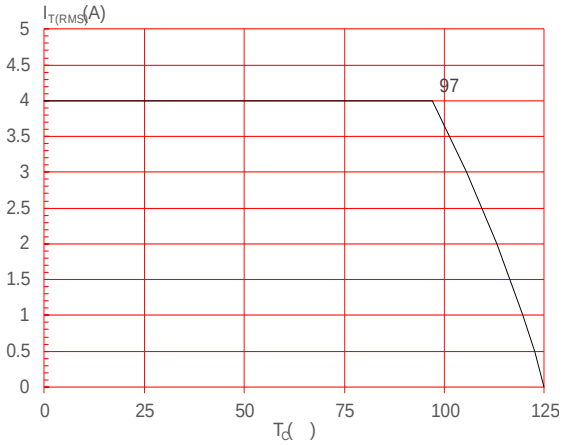


FIG.3: Surge peak on-state current vs number of cycles

FIG.4: On-state characteristics

FIG.7 Test circuit for conducted disturbances IEC -61000-4-5 standards

PACKAGE MECHANICAL DATA

JST04H-800SW