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 an ON/OFF function in applications such as static relays, heating regulation, induction motor starting circuits, or for phase control operation in light dimmers, motor speed controllers, and similar power control circuits. The JST04H-800SW triac is specially recommended for use on inductive loads, because of its high commutation performances. It can be driven directly through the MCU I/O port. For T2 terminal with the tab, the TO-251 is RoHS compliant package.

MAIN FEATURES

ABSOLUTE MAXIMUM RATINGS

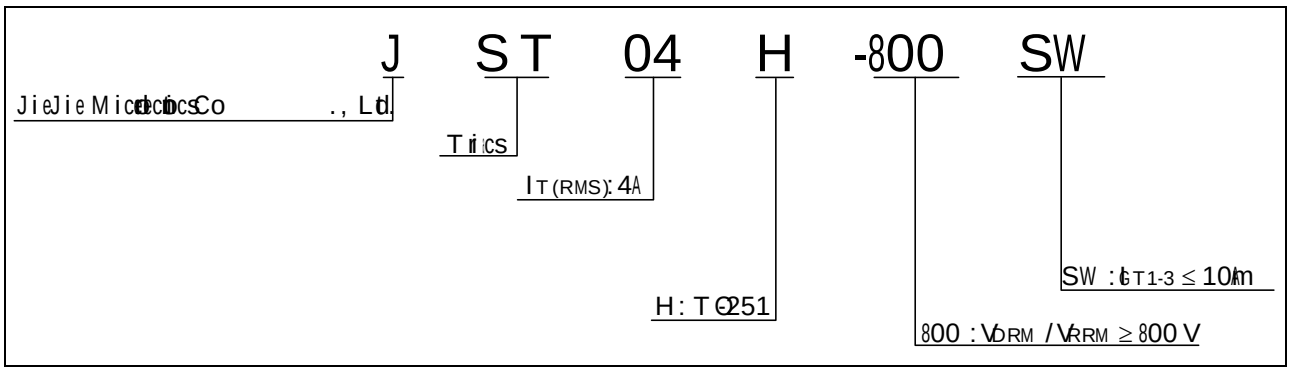
Parameter	Symbol	Value	Unit
Storage junction temperature	T_{stg}	-40-150	
Operating junction temperature	T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	800	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	800	V
RMS on-state current ($T_C \leq 97$)	$I_{T(RMS)}$	4	A
Non repetitive surge 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)		44	
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

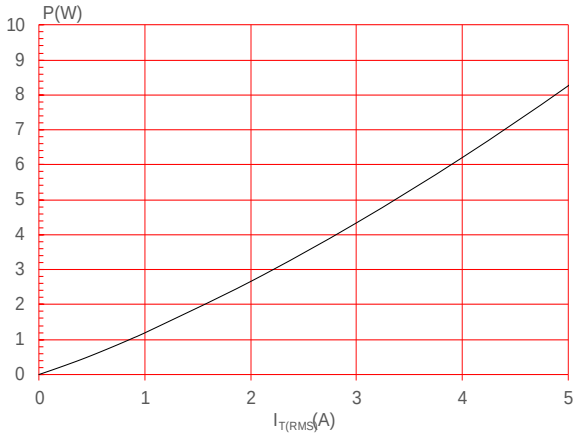


FIG.2: RMS on-state current vs case temperature

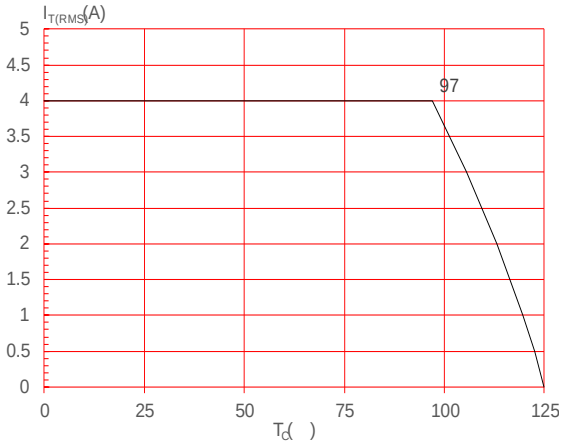


FIG.3: Surge peak on-state current vs number of cycles

FIG.4: On-state characteristics

FIG.7 Test circuit for inductive loads IEC -61000-4-5 Inductive loads

PACKAGE MECHANICAL DATA

JST04H-800SW