JST130V-800T 0.8A TRIAC

Rev A.1.1

DESCRIPTION:

The JST130V-800T 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, m

5.480 Td e f 351 5.4810 Td e f 415.32 350. [(5.480 Td e f 486.24 350. [(5.480 Td e

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Conditions	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	ALL	MAX.	5	mA
V_{GT}		ALL	MAX.	1.3	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.	5	mA
				15	
I_H	I_T=50mA		MAX.	5	mA
dV/dt	V_D=540V Gate Open T_j=110		MIN.	20	V/μs
(dV/dt)c	(dI/dt)c=0.3A/ms, T_j=110		MIN.	1	V/μs
t_{on}	I_G=10mA I_A=200mA I_R=20mA T_j=25		TYP.	2	μs
t_{off}				20	

STATIC CHARACTERISTICS

Symbol	Parameter		Value (MAX.)	Unit
V_{TM}	I_{TM}=1A t_p=380μs	T_j=25	1.5	V
V_{TO}	Threshold voltage	T_j=125	1.01	V
R_D	Dynamic resistance	T_j=125	316	mΩ
I_{DRM}	V_D=V_{DRM} V_R=V_{RRM}	T_j=25	5	μA
I_{RRM}		T_j=125	0.25	mA

THERMAL RESISTANCES

Symbol	Parameter	Value	Unit

ORDERING INFORMATION

J ST 130

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

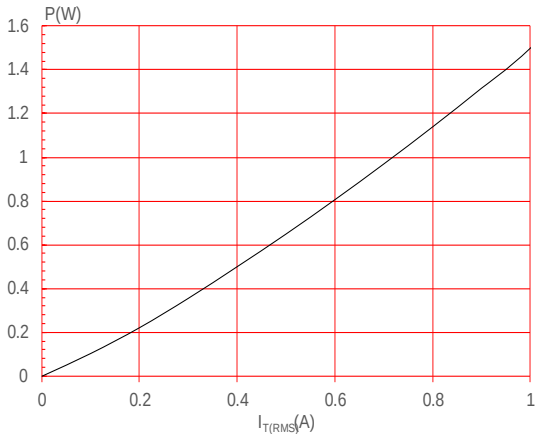


FIG.2: RMS on-state current versus case temperature

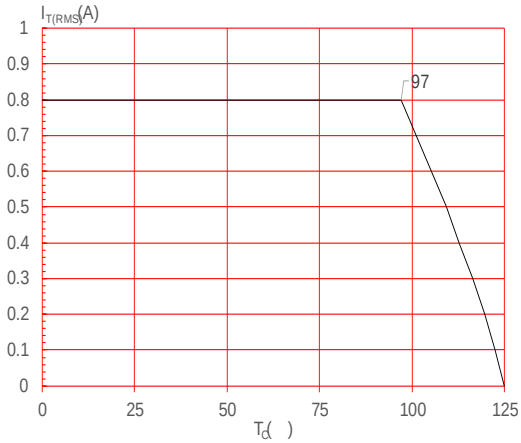


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4, copper thickness: 35µm) (full cycle)

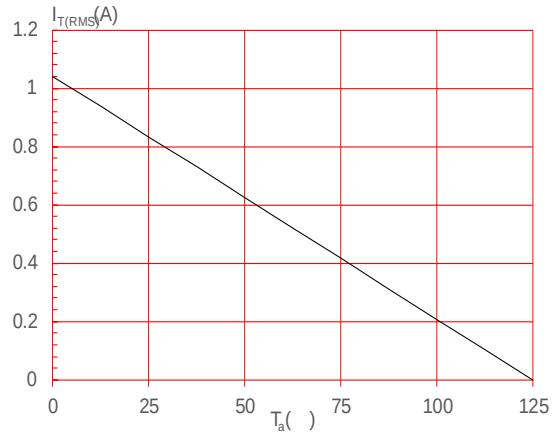
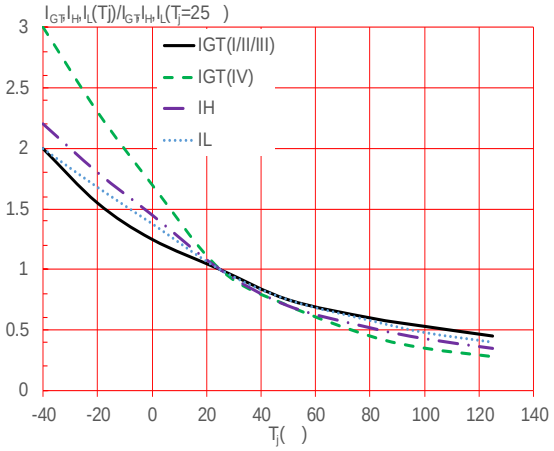


FIG.4: Surge peak on-state current versus number of cycles

FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature



JST130V-800

DELIVERY MODE