JST134W-600E 1A TRIAC Aan aosppuraaonsuituom **Rev.A.1.1**

DESCRIPTION:

The JST134W-600E triac is suitable for general purpose AC switching. It can be used as an ON/OFF function

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33Ω	- -	MAX.	10	mA
				25	
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.	15	mA
				25	
I_H	I_T=100mA		MAX.	20	mA
dV/dt	V_D=400V Gate Open T_j=110		MIN.	300	V/μs
(dV/dt)c	(dI/dt)c=1.8A/ms, T_j=110		MIN.	6	V/μs
t_{on}	I_G=40mA I_A=200mA I_R=20mA T_j=25		TYP.	3	μs
t_{off}				30	

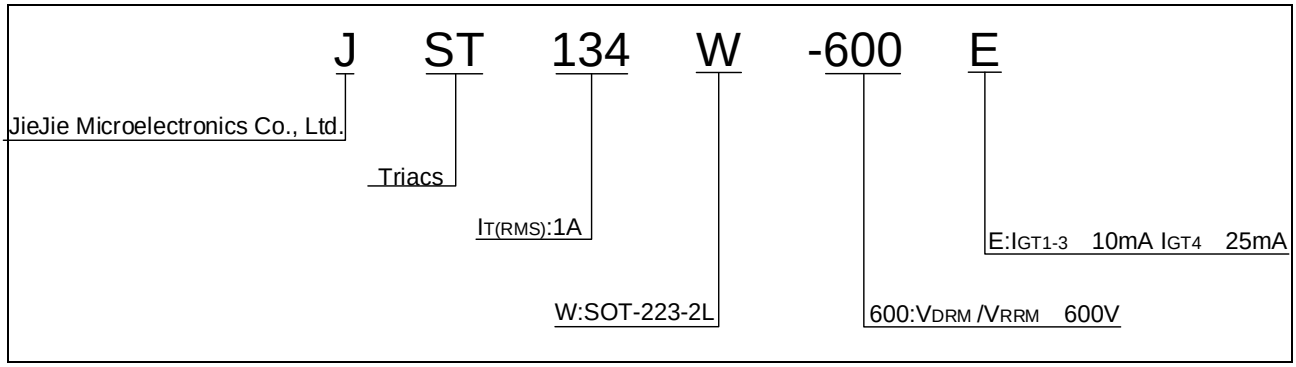
STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
V_{TM}	I_{TM}=5A t_p=380μs	T_j=25	1.55	V
V_{TO}	Threshold voltage	T_j=125	0.92	V
R_D	Dynamic resistance	T_j=125	107	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
$R_{th(j-c)}$	junction to case (AC)	18	/W
$R_{th(j-a)}$	junction to ambient (AC)	150	/W

ORDERING INFORMATION



MARKING

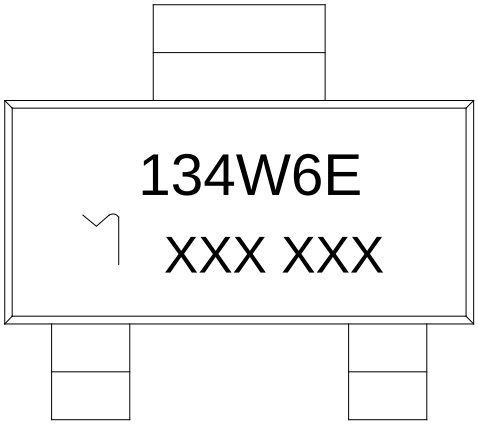


FIG.1: Maximum power dissipation versus RMS on-state current

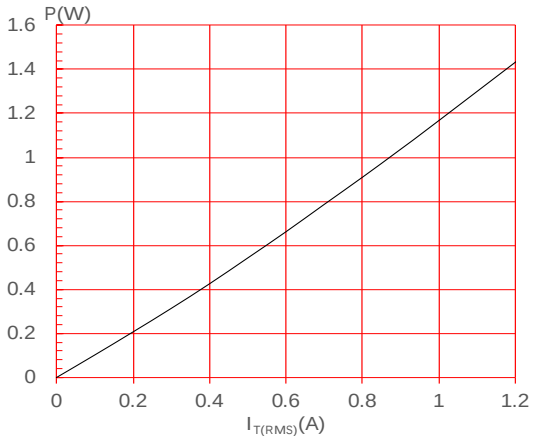


FIG.2: RMS on-state current versus case temperature

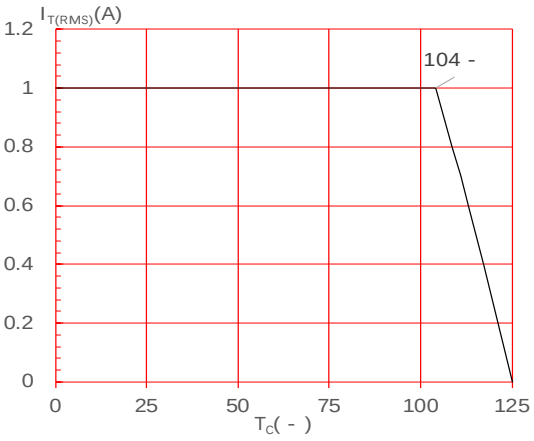
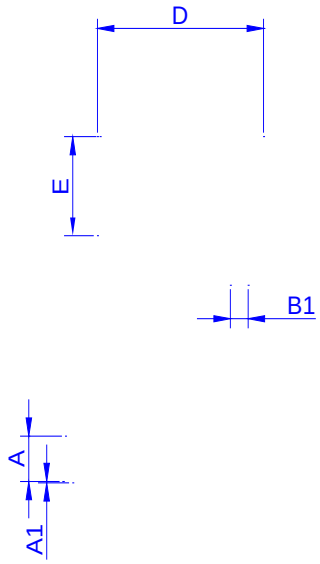


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4, copper thickness: 35µm) (full cycle)

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

FIG.8 Test circuit for inductive and resistive loads to

PACKAGE MECHANICAL DATA



P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	7.90	8.00	8.10	0.311	0.315	0.319
P2	1.95	2.00	2.05	0.077	0.079	0.081
10P0	39.80	40.00	40.20	1.567	1.575	1.583
A0	6.85	6.95	7.05	0.269	0.273	0.276
B0	7.15	7.25	7.35	0.280	0.284	0.288
K0	1.95	2.05	2.15	0.076	0.080	0.084
T	0.20	0.25	0.30	0.008	0.010	0.012