



**JST134W-600E 1A TRIAC**

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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
$I_{GT}$	$V_D=12V R_L=33$	- -	MAX.	10	mA
				25	
$V_{GT}$		ALL	MAX.	1.3	V
$V_{GD}$	$V_D=V_{DRM} T_j=125$ $R_L=3.3k$	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/ $\mu s$
$(dV/dt)_c$	$(dI/dt)_c=1.8A/ms, T_j=110$		MIN.	6	V/ $\mu s$
$t_{on}$	$I_G=40mA I_A=200mA I_R=20mA$ $T_j=25$		TYP.	3	$\mu s$
$t_{off}$				30	

STATIC CHARACTERISTICS

Symbol	Parameter		Value(MAX.)	Unit
$V_{TM}$	$I_{TM}=5A t_p=380\mu s$	$T_j=25$	1.55	V
$V_{TO}$	Threshold voltage	$T_j=125$	0.92	V
$R_D$	Dynamic resistance	$T_j=125$	107	m
$I_{DRM}$	$V_D=V_{DRM} V_R=V_{RRM}$	$T_j=25$	5	$\mu A$
$I_{RRM}$		$T_j=125$	0.25	mA

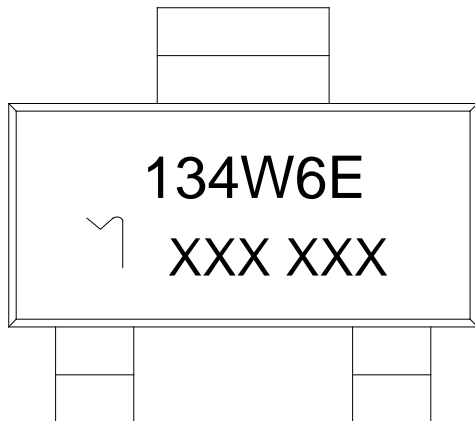
THERMAL RESISTANCES

Symbol	Parameter	Value	Unit
$R_{th(j-c)}$	junction to case (AC)	18	$/W$
$R_{th(j-a)}$	junction to ambient (AC)	150	$/W$

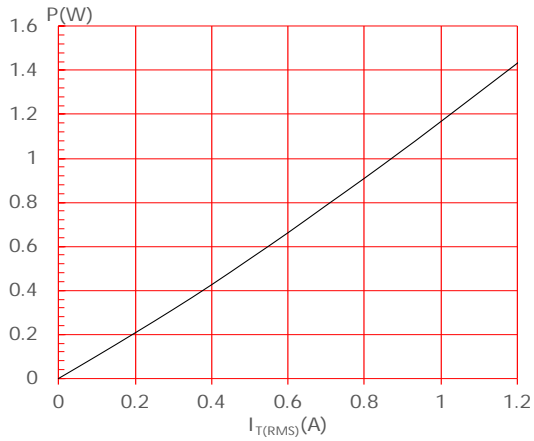
ORDERING INFORMATION

<b>J</b>	<b>ST</b>	<b>134</b>	<b>W</b>	<b>-600</b>	<b>E</b>
JieJie Microelectronics Co., Ltd.	Triacs	$I_{T(RMS)}: 1A$	$W: SOT-223-2L$	$600: V_{DRM} / V_{RRM} \quad 600V$	$E: I_{GT1-3} \quad 10mA \quad I_{GT4} \quad 25mA$

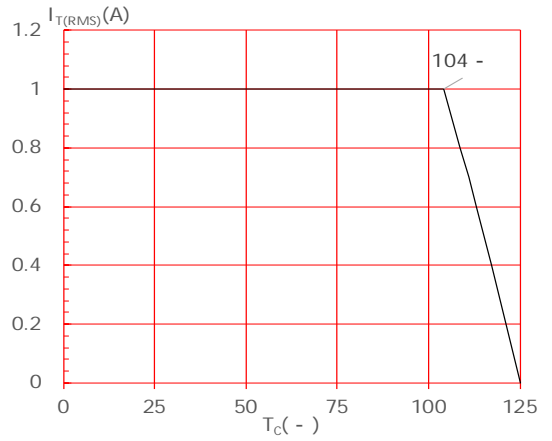
MARKING



**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: 35 $\mu$ m) (full cycle)



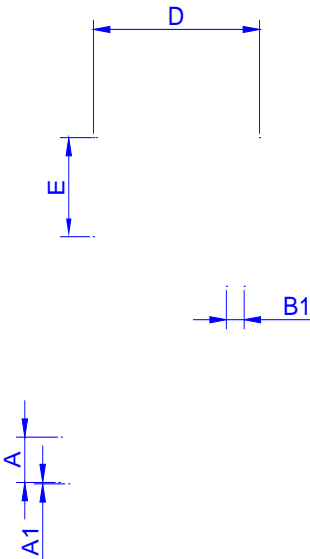
**FIG.4:** Surge peak on-state current versus number of cycles



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

