JST138K-800D 12A TRIAC Rev.A.1.1

DESCRIPTION:

The JST138K-800D triac is suitable for general purpose
AC switching. It can be used as an ON/OFF function in

7p(F)5 hi(O)2 (F)5 (F)5 (0 Td [(t)2 (13.A)1)4 (.A

ELECTRICAL CHARACTERISTICS (T_j=25 unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
I_{GT}	V_D=12V R_L=33	- -	MAX.	5	mA
				10	
V_{GT}			MAX.	1.5	V
V_{GD}	V_D=400V R_L=3.3K T_j=125		MIN.	0.2	V
I_H	I_T=500mA		MAX.	15	mA
I_L	I_G=1.2I_{GT}		MAX.	30	mA
dV/dt	V_D=67%V_{DRM} gate open T_j=125		MIN.	500	V/μs
$(dI/dt)c$	V_D=400V I_{TRM}=12A T_j=125		MIN.	5.3	A/ms

JST138K-800D

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

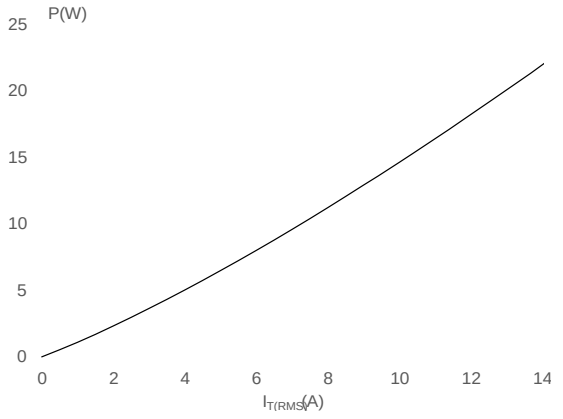


FIG.2: RMS on-state current versus case temperature

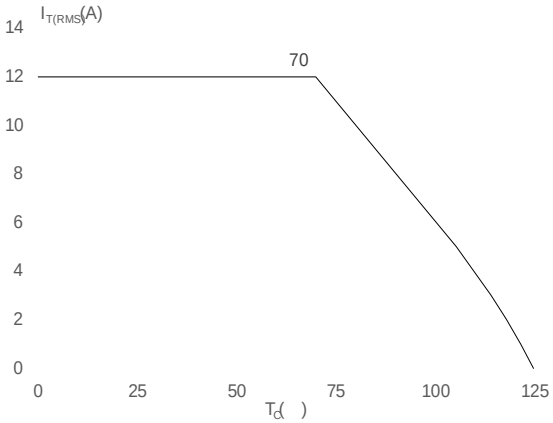


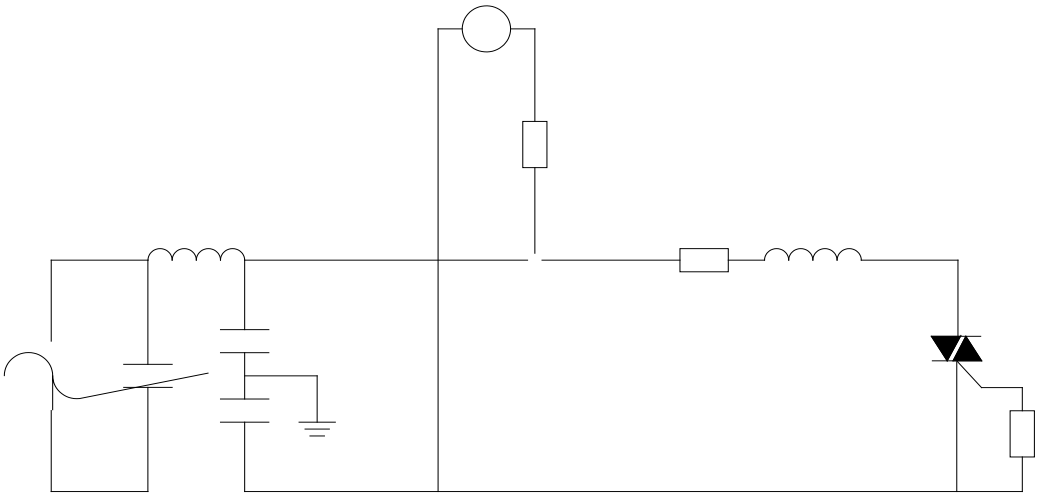
FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4,copper

W K L F N Q H V V P I X O O F \ F O H

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

FIG.8 ÖTest circuit for inductive and resistive loads to IEC-61000-4-5 standards



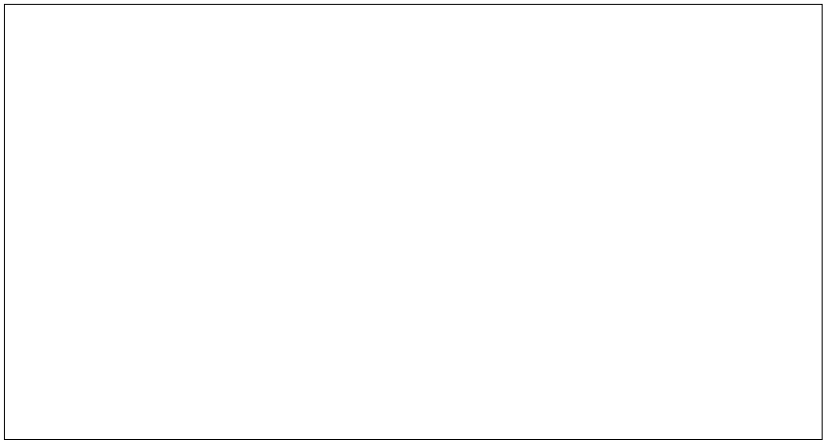
ORDERING INFORMATION

Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		-	-			
JST138K-800D	800	5	10	TO-252	80	Tube

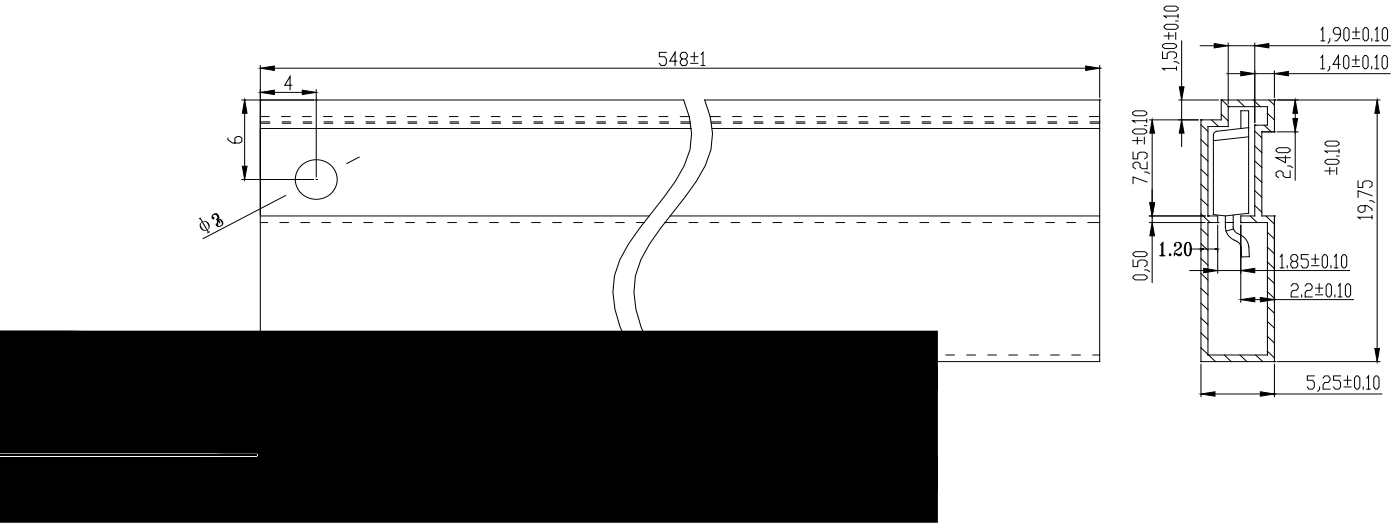
JST138K-800D- D -5 re2 753.656.44.51.933 Tc -0.003 Tw 4.33 (

PACKAGE MECHANICAL DATA

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	2.10		2.50	0.083		0.098
A2	0		0.15	0		0.006
B	0.66		0.86	0.026		0.034
B2	5.18		5.48	0.202		0.216
C	0.40		0.60	0.016		0.024
C2	0.44		0.58	0.017		0.023
D	5.90		6.30	0.232		0.248
D1						
E	6.40		6.80	0.252		0.268
E1	4.63			0.182		
G	4.47		4.67	0.176		0.184
G1	2.18		2.38	0.086		0.094
L	1.09		1.21	0.043		0.048
L2	1.35		1.65	0.053		0.065



DELIVERY MODE



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