

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 (unless otherwise specified)

Symbol	Test Condition	Quadrant	Value		Unit
$I_{GT}$ MAX. $V_{GT}$	$V_D=12V$ $R_L=33$	- -	MAX.	5	mA
				10	

JST138K-800D

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

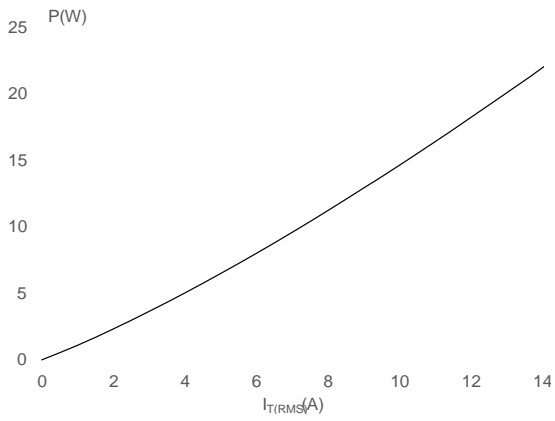


FIG.2: RMS on-state current versus case temperature

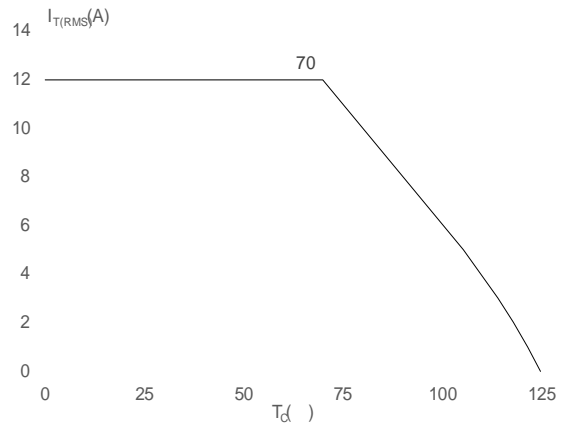


FIG.3: RMS on-state current versus ambient temperature (printed circuit board FR4,copper  
WKLFNQHV V P IXOO F\FOH

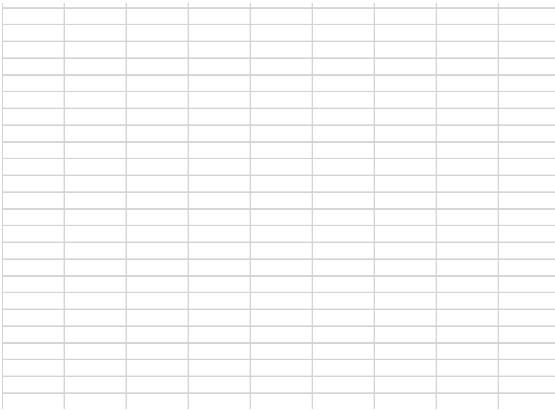
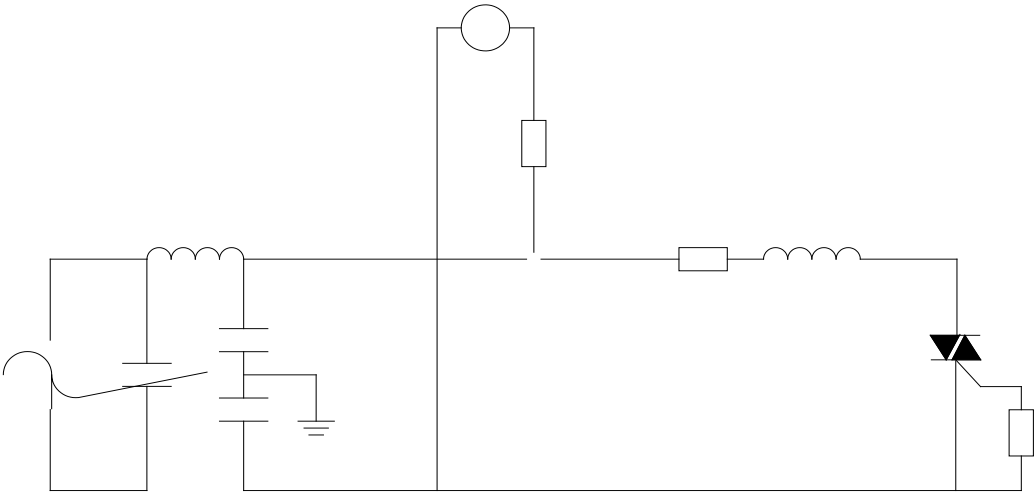


FIG.4: Surge peak on-state current versus number of cycles

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

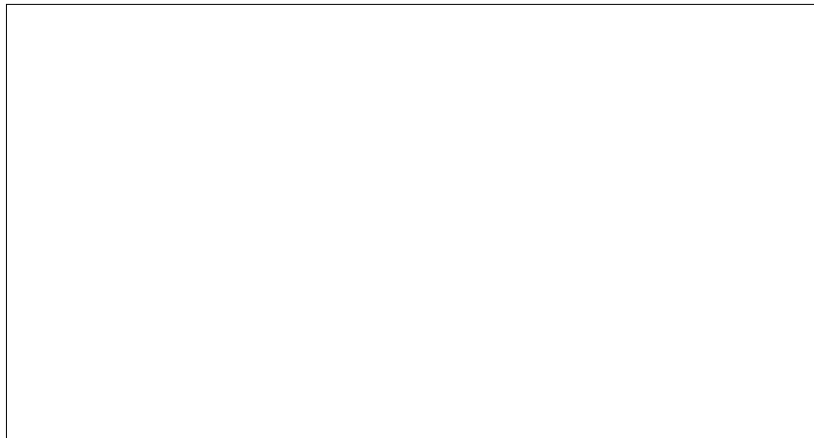


ORDERING INFORMATION

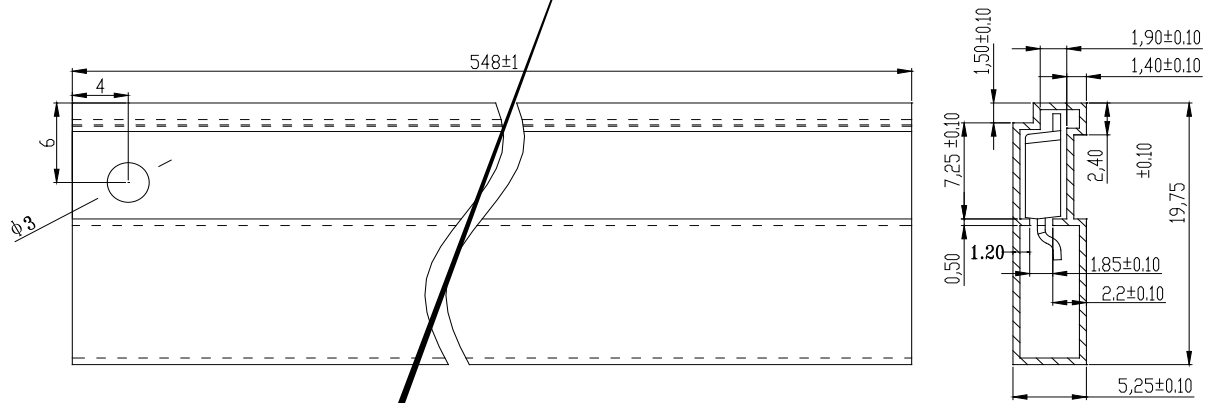
Order code	Voltage $V_{DRM}/V_{RRM}$ (V)	IGT(mA)		Package	Base qty. (pcs)	Delivery mode
		-	-			
JST138K-800D	800	5	10	TO-252	80	Tube
JST138K-800D-						

## 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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