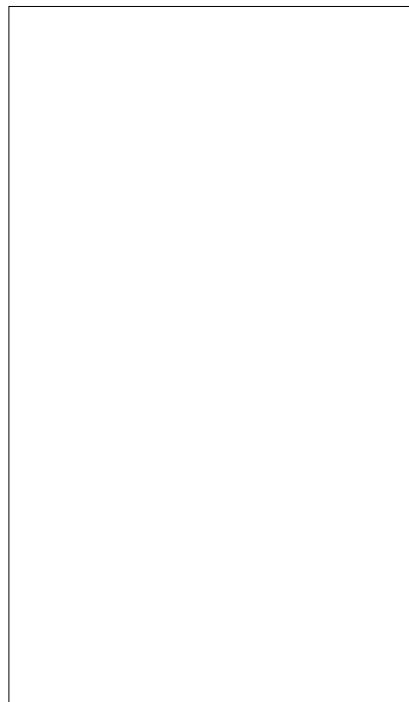




JCT1608K 8A SCR

Rev.A.1.1

DESCRIPTION:



Average gate power dissipation ($T_j=125^\circ\text{C}$)	$P_{G(AV)}$	1	W
Peak gate power	P_{GM}	5	W
Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG.8)	V_{pp}	1.8	kV

ELECTRICAL CHARACTERISTICS ($T_j=25^\circ\text{C}$ unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12\text{V}$ $R_L=33$	-	-	15	mA
V_{GT}		-	-	1	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125^\circ\text{C}$ $R_L=3.3\text{k}$	0.2	-	-	V
I_L	$I_G=1.2I_{GT}$	-	-	40	mA

ORDERING INFORMATION

J	CT	16	08	K	-/
JieJie Microelectronics Co., Ltd.	SCRs	16:V _{DRM} /V _{RRM} 1600V	I _{T(RMS)} :8A	K:TO-252	Blank:Tube -TR:Tape & Reel

MARKING

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

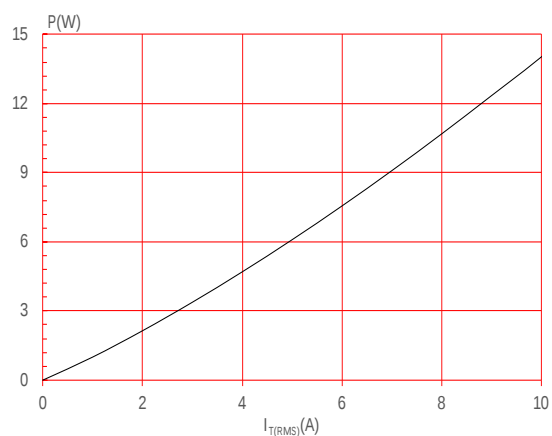
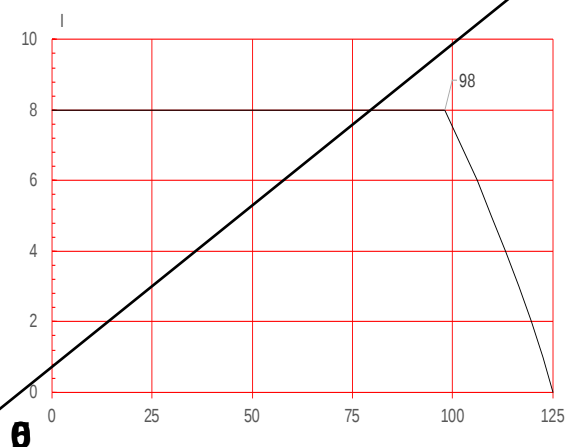


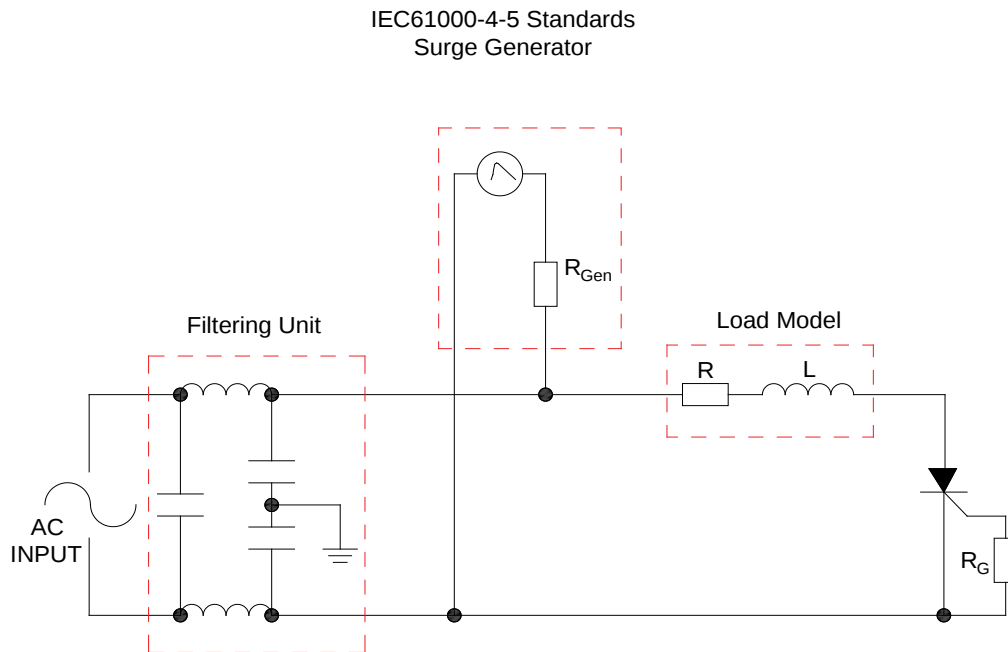
FIG.2: RMS on-state current versus case temperature



JCT1608K

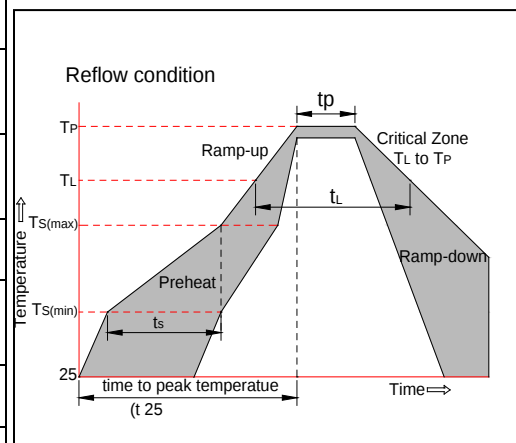
JieJie M

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



SOLDERING PARAMETERS

Reflow Condition		Pb-Free assembly (see figure at right)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150
	-Temperature Max($T_{s(max)}$)	+200
	-Time (Min to Max) (t_s)	60-180 secs.
Average ramp up rate (Liquidus Temp (T_L) to peak)		3 /sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3 /sec. Max
Reflow	-Temperature(T_L) (Liquidus)	+217
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)
Time within 5 of actual Peak Temp (t_p)		20-40secs.
Ramp-down Rate		6 /sec. Max
Time 25 to Peak Temp (T_p)		8 min. Max
Do not exceed		+260



ORDERING INFORMATION

Order code	Voltage $V_{\text{DRM}}/V_{\text{RRM}}$ (V)	IGT(mA)	Package	Base qty. (pcs)	Delivery mode
JCT1608K	1600	15	TO-252	80	Tube
JCT1608K-TR				2,500	Tape & Reel

Document Revision History

Date	Revision	Changes
Apr.7, 2024	A.1.0	Last update
Oct.21, 2025	A.1.1	Revise PACKAGE MECHANICAL DATA

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
C	0.40		0.60	0.016		0.024
D	5.90		6.30	0.232		0.248
E	6.40		6.80	0.252		0.268
G	4.47				0.053	0.065
G1	2.18		2.38	0.086		0.094
L						
L2				0.053		0.065



JCT1608K

 **JieJie Microelectronics Co., Ltd.**

DELIVERY MODE

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