JX014V 1.25A Sensitive SCR

V

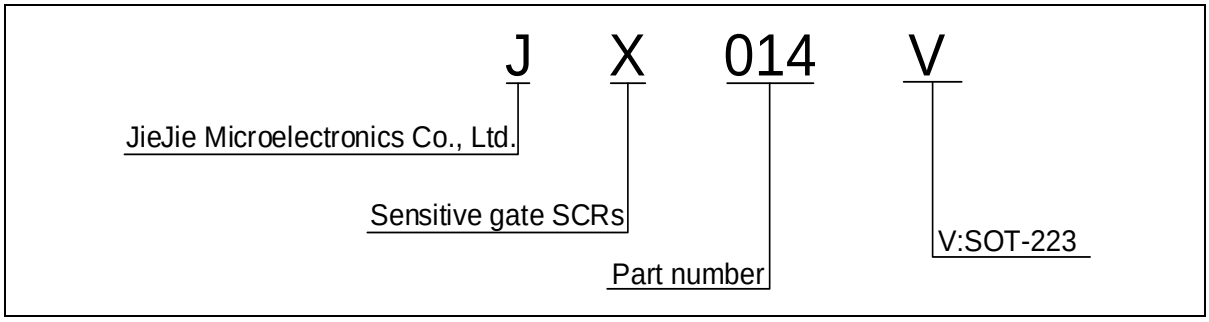
The JX014V SCR provides high dV/dt rate

Peak gate power	P_{GM}	2	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.8)	V_{pp}	1	kV

(T_j=25 unless otherwise specified)

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	V_D=12V R_L=33Ω	-	50	200	μA
V_{GT}		-	0.6	0.8	V
V_{GD}	V_D=V_{DRM} T_j=110	0.2	-	-	V
I_L	I_G=1.2 I_{GT}	-	-	5	mA
I_H	I_T=0.05A	-	-	4	mA
dV/dt	V_D=800V T_j=110 R_{GK}=1kΩ	200	-	-	V/μs
	V_D=800V T_j=110 R_{GK}=220Ω	1000	-	-	
t_{on}	I_G=10mA I_A=20mA I_R=2mA T_j=25	-	2	-	μs
t_{off}		-	50	-	μs

Symbol	Parameter	Value(MAX.)	Unit
V_{TM}	I_T=2A t_p=380μs T_j=25	ID 85 CID12 0 0.481 0.481Td [(-)3 10.48 re f 382.	


J X 014 V
JieJie Microelectronics Co., Ltd.
Sensitive gate SCRs
Part number
V:SOT-223

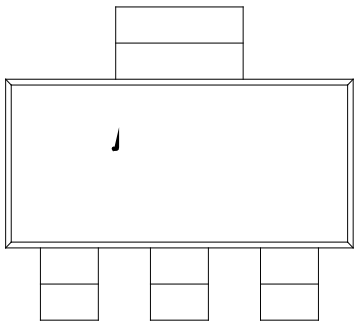
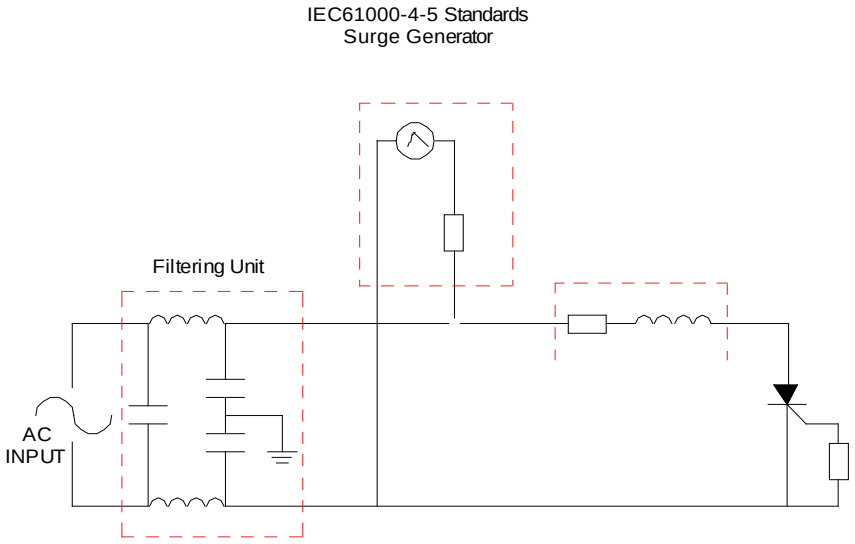


FIG.1: Maximum power dissipation versus RMS on-state current

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

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



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	1.50	1.60	1.80	0.059		0.071
A1	0.01	0.06	0.10		0.002	
B	2.90	3.00	3.10	0.114		0.122
B1	0.60	0.70	0.80	0.024		0.031
C	0.22	0.26	0.32	0.009		0.013
D	6.30	6.50	6.70	0.248		0.264
E	3.30	3.50	3.70	0.130		0.146
F	4.40					
F1	2.20					
G						
H	1.50		2.00	0.059		0.079
J	6.70		7.30	0.264		0.287
K						

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