JR0405H 4A SCR **Rev.A.1.1**

The JR0405H SCR with the parallel resistor between Gate and Cathode, R_{GK}=10~80kΩ is especially recommended for use on straight hair, igniter, anion generator, etc. Package TO-251 is RoHS compliant.

Symbol	Value	Unit
$I_{T(RMS)}$	4	A
V_{DRM}/V_{RRM}	600	V
I_{GT}	≤200	μA

Parameter	**Symbol**	**Value**	**Unit**
Storage junction temperature range	T_{stg}	-40-150	
Operating junction temperature range	T_j	-40-125	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	600	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	600	V
Average on-state current (T_C 93)	$I_{T(=25}$		

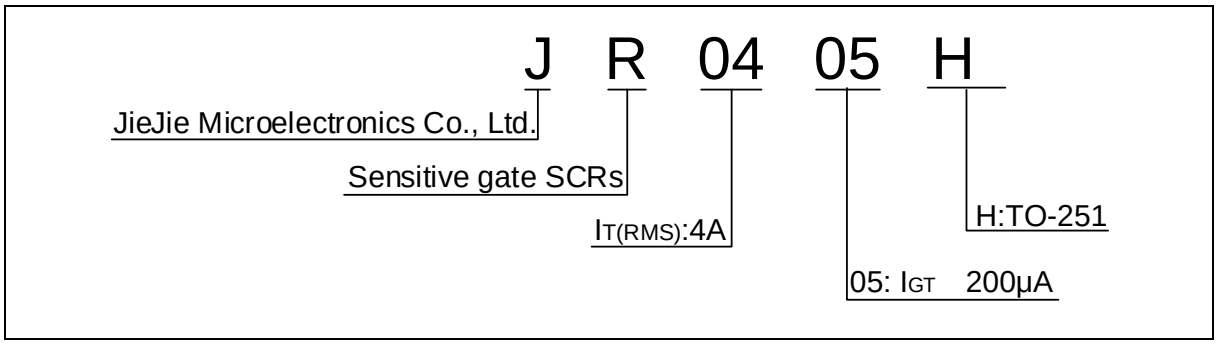
Peak gate power	P_{GM}	5	W
Peak pulse voltage (T_j=25 ; non-repetitive,off-state;FIG.7)	V_{pp}	0.5	kV

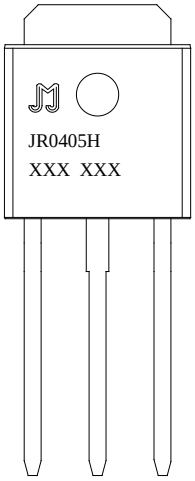
NOTE 1: Operating junction temperature T_j is up to 125 when a resistor ≤1kΩ is connected between Gate and Cathode. Without this resistor, the T_j is up to 110 only.

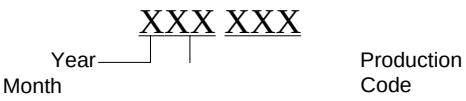
(T_j=25 unless otherwise specified)

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=125	0.2	-	-	V
I_L	I_G=1.2 I_{GT}	-	-	6	mA
I_H	I_T=0.1A	-	-	5	mA
dV/dt	V_D=400V T_j=125 R_{GK}=1kΩ	50	-	-	V/μs
	V_D=400V T_j=125 R_{GK}=220Ω	250	-	-	
t_{on}	I_G=10mA I_A=20mA I_R=2mA T_j=25	-	2	-	

μ 0.481 re f 431.

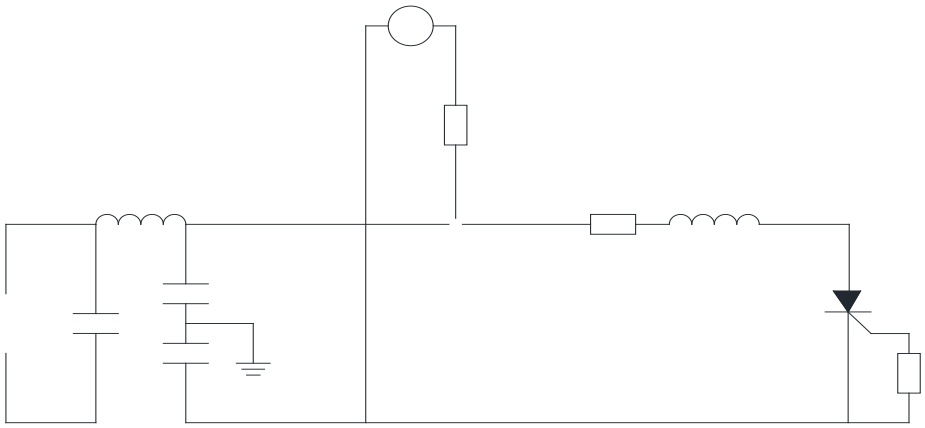

J R 04 05 H
JieJie Microelectronics Co., Ltd.
Sensitive gate SCRs
IT(RMS):4A
H:TO-251
05: IGT 200μA


JR0405H
XXX XXX

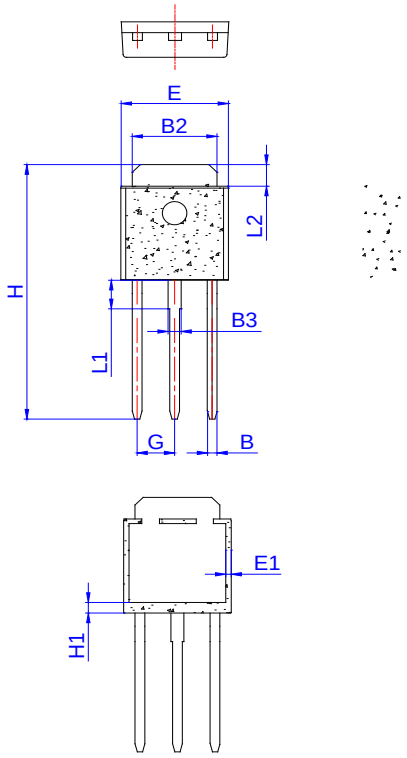

XXX XXX
Year
Month
Production
Code

JR0405H

FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



Order code	



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	2.20		2.40	0.086		0.095
A2	1.00		1.30	0.039		0.051
B	0.50		0.70	0.020		0.028
B2	5.10		5.40	0.200		0.213
B3						
C						
C2						
D						
E						
E1	0.60		1.00	0.024		0.039
G						
H	16.00		17.00	0.630		0.669
H1	1.45		1.85	0.057		0.073
L1						