



JR0405H

4A SCR

Rev.A.1.1

The JR0405H SCR with the parallel resistor between Gate and Cathode, $R_{GK}=10\sim80k\Omega$ 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 ($T_j=25^\circ C$)	V_{DRM}	600	V
Repetitive peak reverse voltage ($T_j=25^\circ C$)	V_{RRM}	600	V
Average on-state current ($T_c=93^\circ C$)	$I_{T(AV)}$	4	A

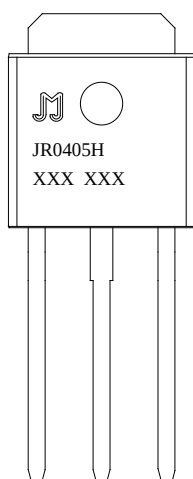
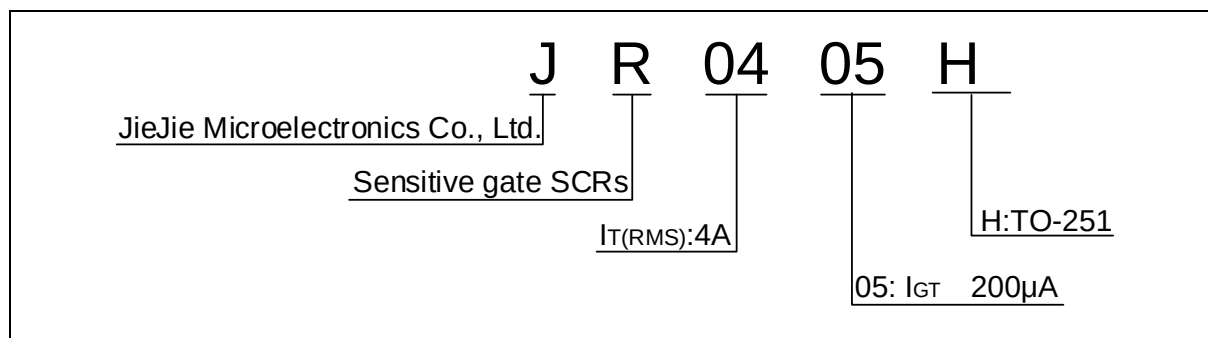
Peak gate power	P_{GM}	5	W
Peak pulse voltage ($T_j=25^\circ\text{C}$; non-repetitive, off-state; FIG.7)	V_{pp}	0.5	kV

NOTE 1: Operating junction temperature T_j is up to 125°C when a resistor $\leq 1\text{k}\Omega$ is connected between Gate and Cathode. Without this resistor, the T_j is up to 110°C only.

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

Symbol	Test Condition	Value			Unit
		MIN.	TYP.	MAX.	
I_{GT}	$V_D=12\text{V}$ $R_L=33\Omega$	-	50	200	μA
V_{GT}		-	0.6	0.8	V
V_{GD}	$V_D=V_{DRM}$ $T_j=125^\circ\text{C}$	0.2	-	-	V
I_L	$I_G=1.2 I_{GT}$	-	-	6	mA
I_H	$I_T=0.1\text{A}$	-	-	5	mA
dV/dt	$V_D=400\text{V}$ $T_j=125^\circ\text{C}$ $R_{GK}=1\text{k}\Omega$	50	-	-	$\text{V}/\mu\text{s}$
	$V_D=400\text{V}$ $T_j=125^\circ\text{C}$ $R_{GK}=220\Omega$	250	-	-	
t_{on}	$I_G=10\text{mA}$ $I_A=20\text{mA}$ $I_R=2\text{mA}$ $T_j=25^\circ\text{C}$	-	2	-	μs

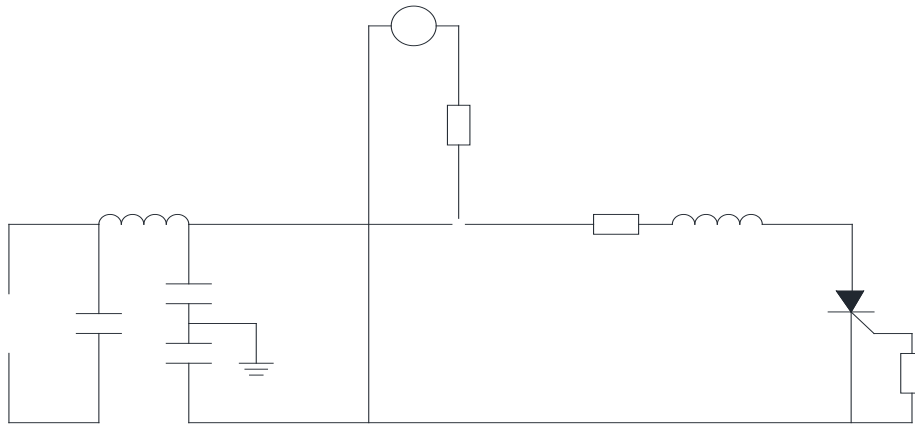
$\mu 0.481 \text{ re } f 431.$



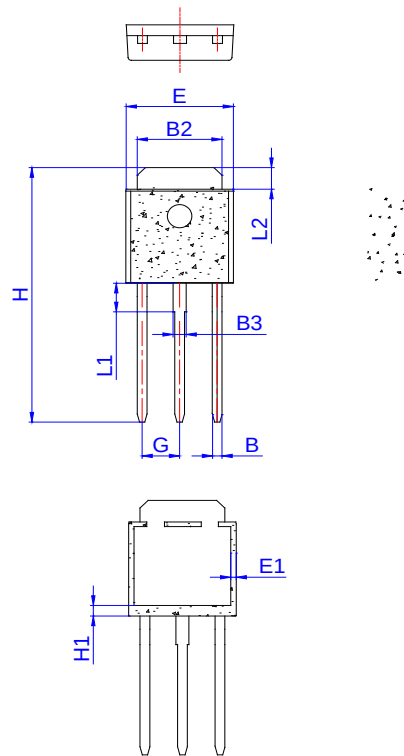
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Year			Production Code
Month			

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						

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