JR0205U **2A SCR** **Rev.A.2.1**

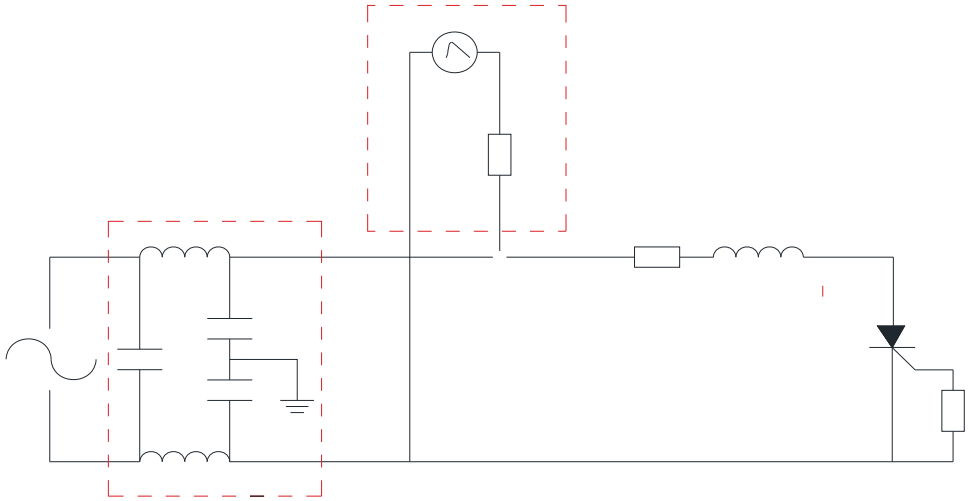
The JR0205U SCR with the parallel resistor between Gate and Cathode, R_{GK}=10~80kΩ is especially recommended for use on straight hair, igniter, anion generator, etc. Package TO-92 is RoHS compliant.

Symbol	Value	Unit
$I_{T(RMS)}$	2	A
V_{DRM}/V_{RRM}	600	V
I_{GT}	≤200	μA

Parameter	Symbol	ue	Unit
Storage junction temperature range	T_{stg}	150	
Operating junction temperature range	T_j	25	
Repetitive peak off-state voltage (T_j=25)	V_{DRM}	0	V
Repetitive peak reverse voltage (T_j=25)	V_{RRM}	0	V
Average on-state current	$I_{T(AV)}$	3	A
RMS on-state current	$I_{T(RMS)}$		A
Non repetitive surge peak on-state current (t_p=10ms , T_j=25)	I_{TSM}	0	A
Non repetitive surge peak on-state current (t_p=8.3ms , T_j=25)		2	
I^2t value for fusing (t_p=10ms , T_j=25)	I^2t		A^2s
Critical rate of rise of on-state current (I_{GI} " e f ɹ i $ ` " ' ⌐ þ ⌐			

Peak gate power	P_{GM}	2	W
Peak pulse voltage (T_j			

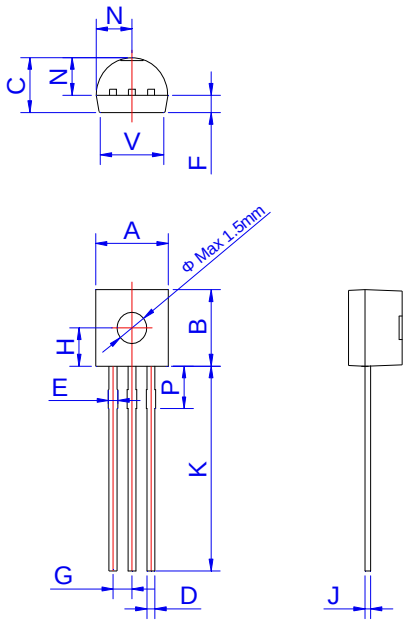
FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



Order code	Voltage V_{DRM}/V_{RRM} (V)	IGT(μA)	Package	Base qty. (pcs)	Delivery mode
JR0205U	600	≤200	TO-92	1,000	Bulk Pack
JR0205U-TR				2,000	Tape & Reel

Document Revision History

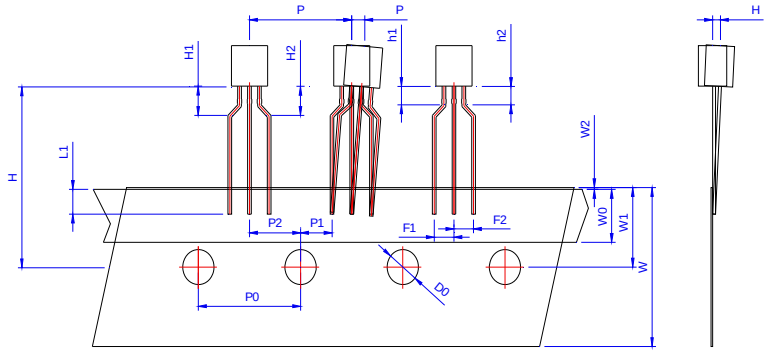
Date	Revision	Changes
Apr.10, 2023	A.1.0	Last update
Mar.27, 2025	A.2.0	Renew PACKAGE MECHANICAL DATA
Sept.28, 2025	A.2.1	Revise PACKAGE MECHANICAL DATA



Dimensions

Ref.	Millimeters			Inches		
	Min.	Typ.	Ma	ف	V	.

PACKAGE	OUTLINE	BAG (PCS)	INNER BOX (PCS)	CARTON BOX (PCS)
TO-92	Bulk Pack	1,000	10,000	50,000



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
P	12.40	12.70	13.00	0.488	0.500	0.512
P0	12.40	12.70	13.00	0.488	0.500	0.512
P1	3.55	3.85	4.15	0.140	0.152	0.163
P2	5.95	6.35	6.75	0.233	0.250	0.265
P	-1.00	0	1.00	-0.039	0	0.039
F1 F2	2.30	2.50	2.70	0.090	0.098	0.106
F1-F2	-0.10	0	0.10	-0.004	0	0.004
W	17.50	18.00	19.00	0.689	0.709	0.748
W0	5.50	6.00	6.50	0.217	0.236	0.256
W1	8.50	9.00	9.50	0.335	0.354	0.374
W2			1.00			0.039
D0	3.80	4.00	4.20	0.150	0.157	0.165
H	-1.00	0	1.00	-0.039	0	0.039
L1	2.50			0.098		
H	18.00	19.00	20.00	0.709	0.748	0.787
H1 H2			3.00			0.119
H1-H2	-0.50		0.50	-0.020		0.020
h1 h2			1.00			0.040
h1-h2	-0.20		0.20	-0.008		0.008

PACKAGE	OUTLINE	REEL (PCS)	INNER BOX (PCS)	CARTON BOX (PCS)
TO-92	Tape & Reel	/	2,000	20,000

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