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

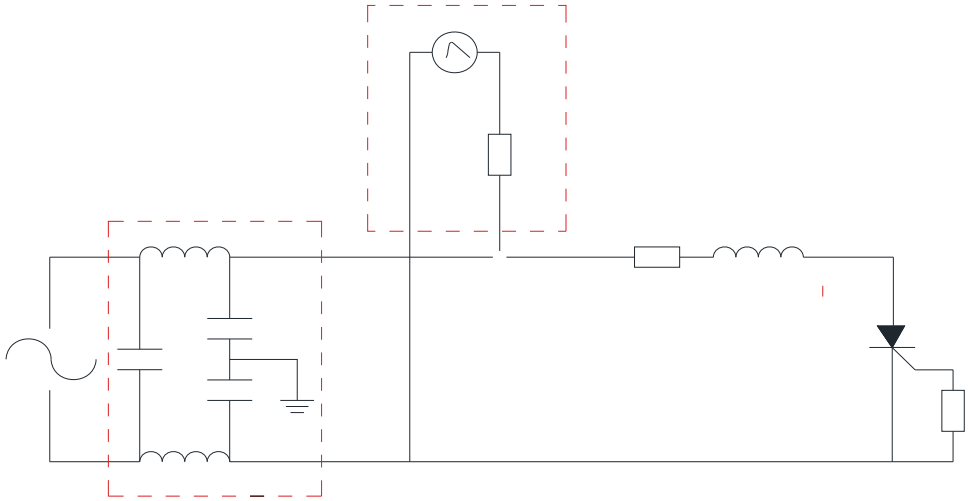
The JR0205U SCR with the parallel resistor between Gate and Cathode, $R_{GK}$=10~80kΩ is especially recommended for use on straight hair, igniter, anion generator, etc. Package TO-92 is RoHS compliant.

| 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 ($T_j$ | | | |

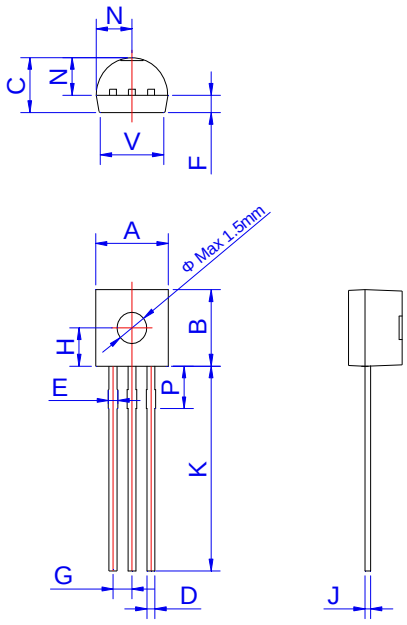
FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



| 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

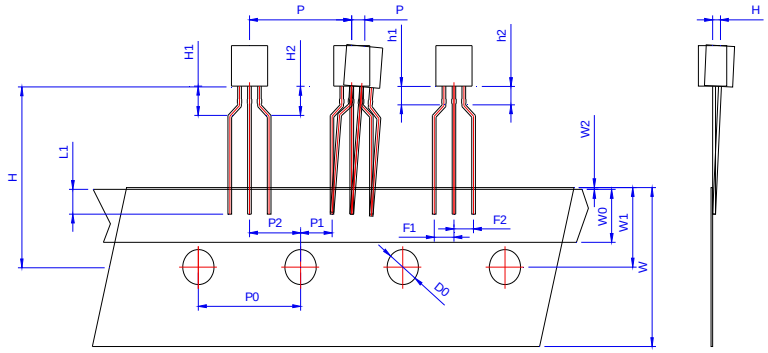
| Date | Revision | Changes |
|---|---|---|
| Apr.10, 2023 | A.1.0 | Last update |
| Mar.27, 2025 | A.2.0 | Renew PACKAGE MECHANICAL DATA |
| Sept.28, 2025 | A.2.1 | Revise PACKAGE MECHANICAL DATA |




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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