



JR0405Q

4A SCR

Rev.A.1.0

## DESCRIPTION:

The JR0405Q 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-126 is RoHS compliant.

## MAIN FEATURES

| Symbol            | Value      | Unit    |
|-------------------|------------|---------|
| $I_{T(RMS)}$      | 4          | A       |
| $V_{DRM}/V_{RRM}$ | 600        | V       |
| $I_{GT}$          | $\leq 200$ | $\mu A$ |

## ABSOLUTE MAXIMUM RATINGS

| Parameter                          | Symbol    | Value   | Unit |
|------------------------------------|-----------|---------|------|
| Storage junction temperature range | $T_{stg}$ | -40-150 |      |

|                                                                    |          |     |    |
|--------------------------------------------------------------------|----------|-----|----|
| Peak gate power                                                    | $P_{GM}$ | 5   | W  |
| Peak pulse voltage<br>( $T_j=25$ ; 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  $\leq 1k\Omega$  is connected between Gate and Cathode. Without this resistor, the  $T_j$  is up to 110 only.

**ELECTRICAL CHARACTERISTICS** ( $T_j=25$  unless otherwise specified)

| Symbol | Test Condition | Value | Unit |
|--------|----------------|-------|------|
|--------|----------------|-------|------|

ORDERING INFORMATION

|                            |                     |    |         |          |
|----------------------------|---------------------|----|---------|----------|
| J                          | R                   | 04 | 05      | Q        |
| Microelectronics Co., Ltd. |                     |    |         |          |
|                            | Sensitive gate SCRs |    |         | Q:TO-126 |
|                            | IT(RMS):4A          |    |         |          |
|                            |                     |    | 05: IGT | 200A     |

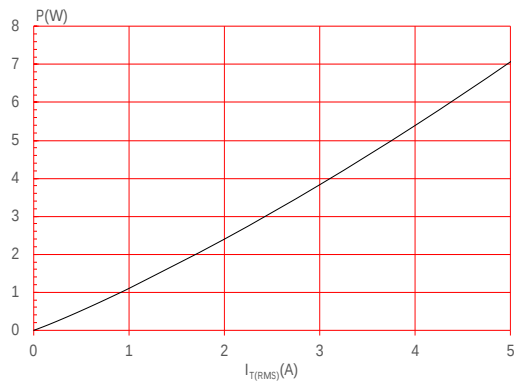
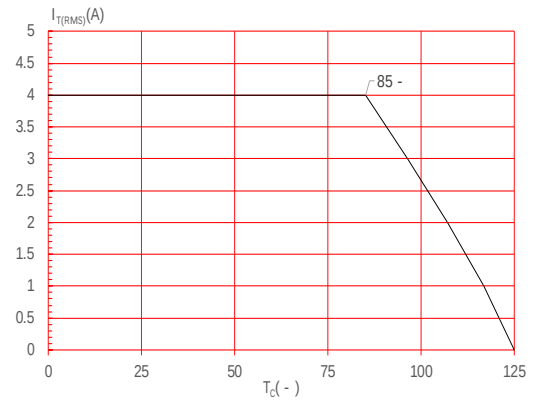
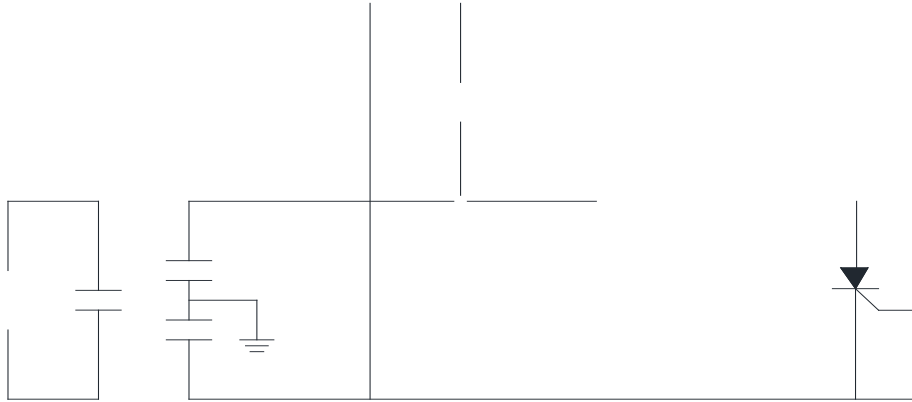
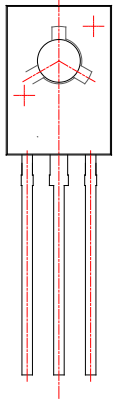
**FIG.1:** Maximum power dissipation versus RMS on-state current**FIG.3:** Surge peak on-state current versus number of cycles**FIG.2:** RMS on-state current versus case temperature**FIG.4:** On-state characteristics

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



**JR0405Q**

PACKAGE MECHANICAL DATA



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