



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        |
| JieJie Microelectronics Co., Ltd. | Sensitive gate SCRs | $I_{T(RMS)}:4A$ |                          | Q:TO-126 |
|                                   |                     |                 | 05: $I_{GT}$ 200 $\mu A$ |          |

MARKINT $I_{T(RMS)}$

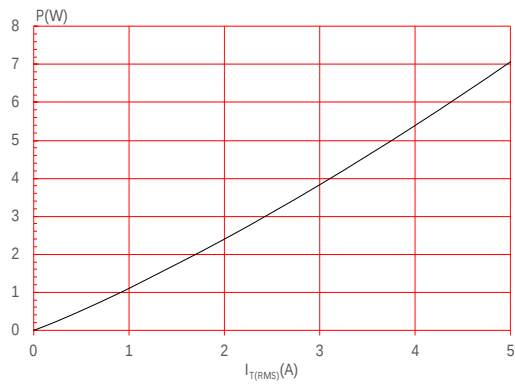
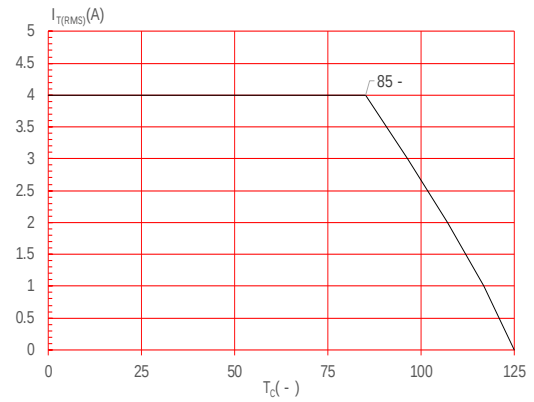
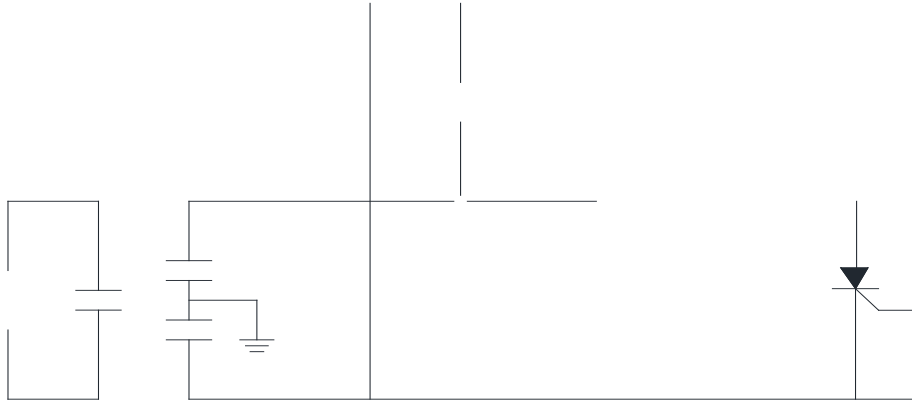
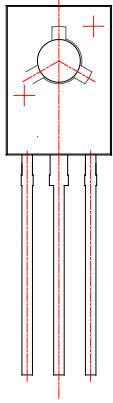
**FIG.1:** Maximum power dissipation versus RMS on-state current**FIG.3:** Surge peak on-state current versus number of cycles**FIG.2:** RMS on-state current versus case temperature**FIG.4:** On-state characteristics

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



**JR0405Q**

PACKAGE MECHANICAL DATA



Information furnished in this document is believed to be accurate and reliable.  
However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the  
consequences of use without consideration for such information nor use beyond it.