# JX020Q 2A Sensitive SCR

Rev.A.1.0

## DESCRIPTION:

The JX020Q SCR provides high dV/dt rate with strong resistance to electromagnetic interface. It is especially recommended for use on residual current circuit breaker, straight hair, igniter etc. Package TO-126 is RoHS compliant.

## MAIN FEATURES

| Symbol | Value | Unit |
|---|---|---|
| $I_{T(RMS)}$ | 2 | A |
| $V_{DRM}$ /$V_{RRM}$ | 600 | V |
| $I_{GT}$ | Ò200 | εA |

## ABSOLUTE MAXIMUM RATINGS

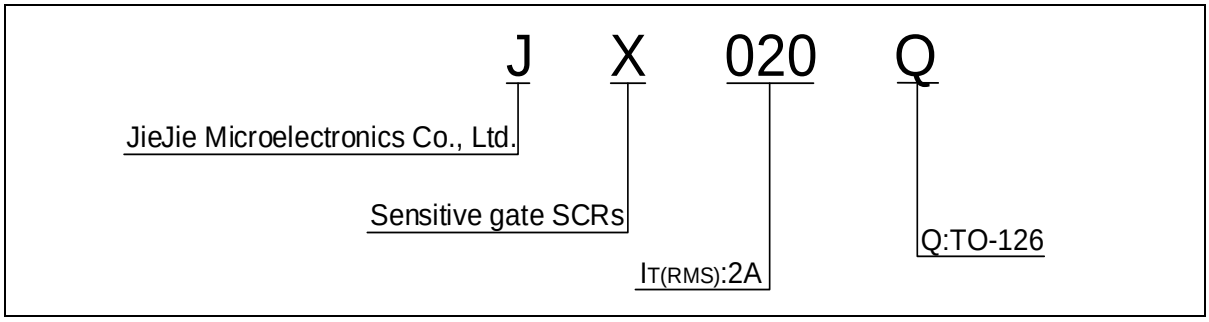
| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Storage junction temperature range | [redacted] | [redacted] | [redacted] |
| Operating junction temperature range | $T_j$ | -40-125 $^{7}$ | |
| Repetitive peak off-state voltage ($T_j$=25 ) | $V_{DRM}$ | 600 | V |

[redacted]

| | | | |
|---|---|---|---|
| Peak gate power | $P_{GM}$ | 2 | W |
| Peak pulse voltage ($T_j$=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 Ò1kq is connected between Gate and Cathode. Without this resistor, the $T_j$ is up to 110

## ORDERING INFORMATION




## MARKING

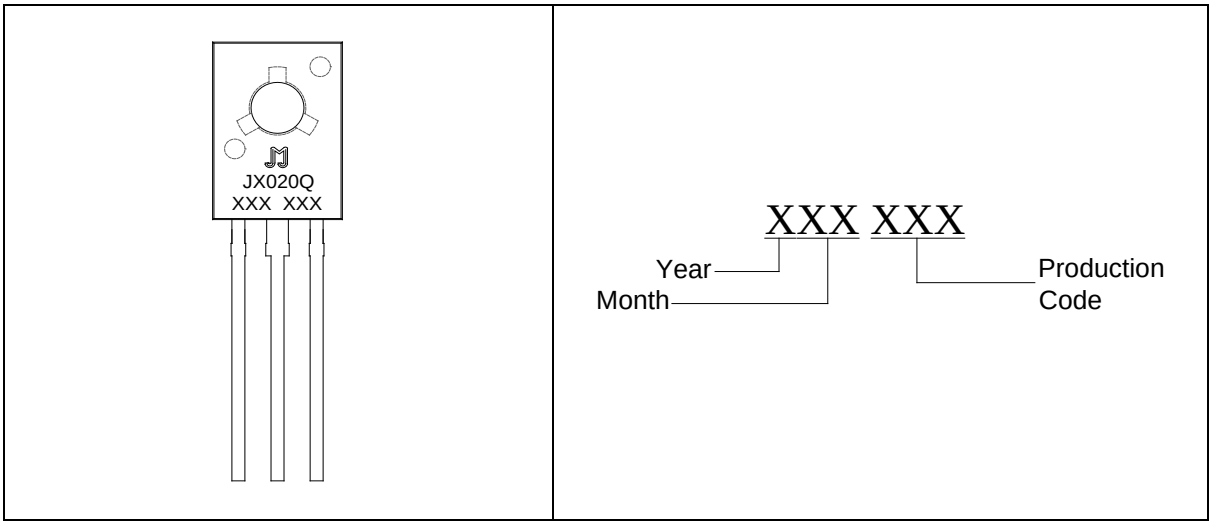


FIG.1: Maximum power dissipation versus RMS on-state current

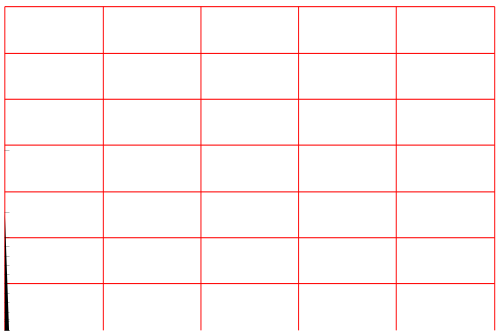


FIG.2: RMS on-state current versus case temperature

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



## ORDERING INFORMATION

| Order code | Voltage $V_{DRM}/V_{RRM}$ (V) | IGT ) | Package | Base qty. (pcs) | Delivery mode |
|---|---|---|---|---|---|
| JX020Q | 600 | | TO-126 | 500 | Bulk Pack |

Document Revision History

| Date | Revision | Changes |
|---|---|---|
| Apr.12, 2023 | A.1.0 | Last update |

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