## JX016K 6A Sensitive SCR

Rev.A.1.1

The JX016K 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-252 is RoHS compliant.

| Symbol | Value | Unit |
|---|---|---|
| $I_{T(RMS)}$ | 6 | A |
| $V_{DRM}/V_{RRM}$ | 1600 | V |
| $I_{GT}$ | 200 | A |

| | | | |
|---|---|---|---|
| Peak gate power | $P_{GM}$ | 10 | W |
| Peak pulse voltage ($T_j$=25 ; non-repetitive,off-state;FIG.8) | $V_{pp}$ | 1.5 | kV |

# JX016K

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

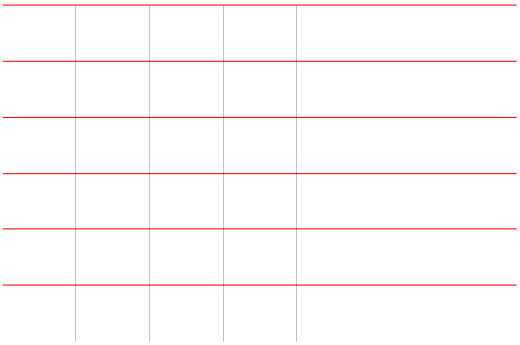
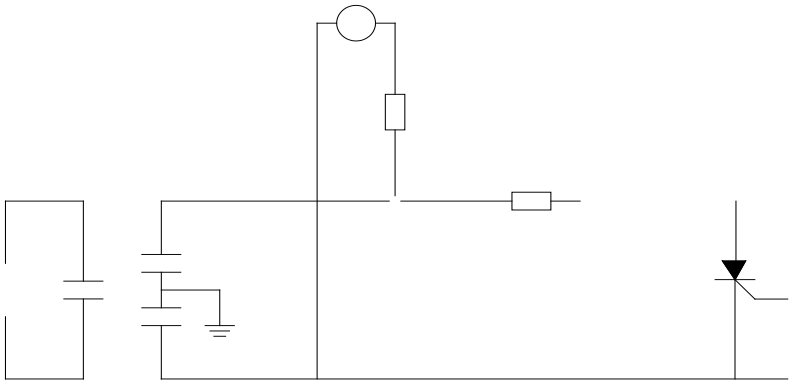
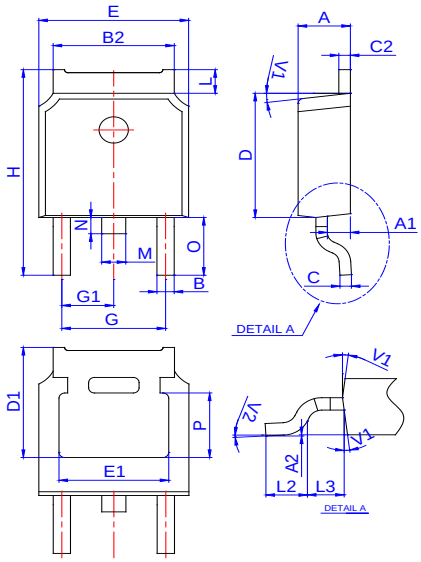


**FIG.2:** RMS on-state current versus case temperature

FIG.8 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards.






| Ref. | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | Millimeters | | | Inches | | |
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | 2.10 | | 2.50 | 0.083 | | 0.098 |
| A1 | 0.80 | | 1.20 | 0.031 | | 0.047 |
| A2 | 0 | | 0.15 | 0 | | 0.006 |
| B | 0.66 | | 0.86 | 0.026 | | 0.034 |
| B2 | 5.18 | | 5.48 | 0.202 | | 0.216 |
| C | 0.40 | | 0.60 | 0.016 | | 0.024 |
| C2 | 0.44 | | 0.58 | 0.017 | | 0.023 |
| D | 5.90 | | 6.30 | 0.232 | | 0.248 |
| D1 | 5.30REF | | | 0.209REF | | |
| E | 6.40 | | 6.80 | 0.252 | | 0.268 |
| E1 | 4.63 | | | 0.182 | | |
| G | 4.47 | | 4.67 | 0.176 | | 0.184 |
| G1 | 2.18 | | 2.38 | 0.086 | | 0.094 |
| H | 9.50 | | 10.70 | 0.374 | | 0.421 |
| L | 1.09 | | 1.21 | 0.043 | | 0.048 |
| L2 | 1.35 | | 1.65 | 0.053 | | 0.065 |
| L3 | 1.10 | | 1.50 | 0.043 | | 0.059 |
| M | 0.65 | | 0.95 | 0.026 | | 0.037 |
| N | 0.65 | | 0.95 | 0.026 | | 0.037 |
| O | 2.80 | | 3.20 | 0.110 | | 0.126 |
| P | 3.10 | | 3.30 | 0.122 | | 0.130 |
| V1 | | 7° | | | 7° | |
| V2 | 0° | | 6° | 0° | | 6° |

