



## JX012W 1.25A Sensitive SCR

Rev.A.1.1

### DESCRIPTION:

The JX012W 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 SOT-223-2L is RoHS compliant.

### MAIN FEATURES

| Symbol              | Value | Unit    |
|---------------------|-------|---------|
| $I_{T(RMS)}$        | 1.25  | A       |
| $V_{DRM} / V_{RRM}$ | 1200  | V       |
| $I_{GT}$            | 200   | $\mu A$ |

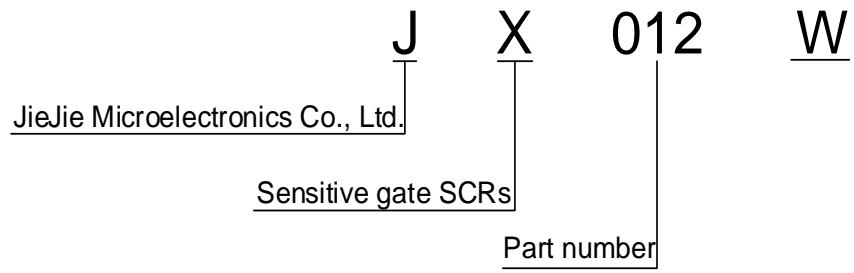
### ABSOLUTE MAXIMUM RATINGS

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

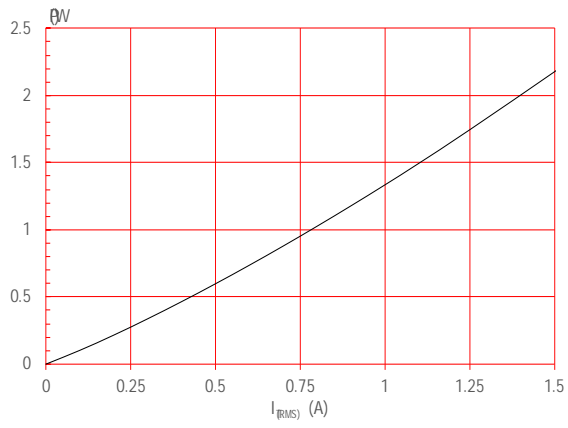
Operating 40

|                                    |          |   |   |
|------------------------------------|----------|---|---|
| Peak gate power                    | $P_{GM}$ | 2 | W |
| Peak pulse voltage<br>( $T_j=25$ ) |          |   |   |

**ORDERING INFORMATION**



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



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



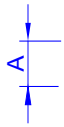




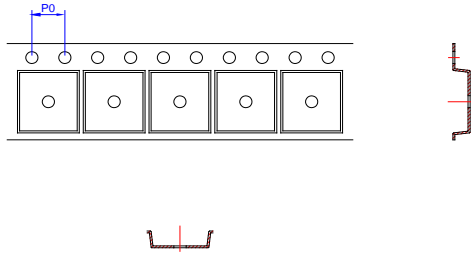
**ORDERING INFORMATION**

| <b>Order code</b> | <b>Voltage<br/><math>V_{DRM}/V_{RRM}</math> (V)</b> | <b>IGT(<math>\mu</math>A)</b> | <b>Package</b> | <b>Base qty.<br/>(pcs)</b> | <b>Delivery<br/>mode</b> |
|-------------------|---|-------------------------------|----------------|----------------------------|--------------------------|
| JX012W            | 1200  | 200                           | SOT-223-2L     | 4,000                      | Tape & Reel              |

**PACKAGE MECHANICAL DATA AA**



DELIVERY MODE 8



| Ref. | Dimensions  |       |       |        |       |       |
|------|-------------|-------|-------|--------|-------|-------|
|      | Millimeters |       |       | Inches |       |       |
|      | Min.        | Typ.  | Max.  | Min.   | Typ.  | Max.  |
| W    | -           |       | 12.30 | -      |       | 0.482 |
| E    | 1.65        | 1.75  | 1.85  | 0.065  | 0.069 | 0.073 |
| F    | 5.45        | 5.50  | 5.55  | 0.215  | 0.217 | 0.219 |
| D0   |             | 1.55  | 1.60  |        | 0.061 | 0.063 |
| D1   |             | -     | -     |        |       |       |
| P0   | 3.90        | 4.00  | 4.10  | 0.154  | 0.157 | 0.161 |
| P1   | 7.90        | 8.00  | 8.10  | 0.311  | 0.315 | 0.319 |
| P2   | 1.95        | 2.00  | 2.05  | 0.077  | 0.079 | 0.081 |
| 10P0 | 39.80       | 40.00 | 40.20 | 1.567  | 1.575 | 1.583 |
| A0   | 6.85        | 6.95  | 7.05  | 0.269  | 0.273 | 0.276 |
| B0   | 7.15        | 7.25  | 7.35  | 0.280  | 0.284 | 0.288 |
| K0   | 1.95        | 2.05  | 2.15  | 0.076  | 0.080 | 0.084 |
| T    | 0.20        | 0.25  | 0.30  | 0.008  | 0.010 | 0.012 |

