



## JX011U 1A Sensitive SCR

Rev.A.2.1

^ Z / W d / K E W

The JX011U SCR provides high dV/dt rate  
with strong resistance to electromagnetic

|                                                                                    |          |   |    |
|------------------------------------------------------------------------------------|----------|---|----|
| Peak gate power                                                                    | $P_{GM}$ | 2 | W  |
| Peak pulse voltage<br>( $T_j=25^\circ\text{C}$ ; non-repetitive, off-state; FIG.7) | $V_{pp}$ | 1 | kV |

**NOTE 1:** Operating junction temperature  $T_j$  is up to  $125^\circ\text{C}$  when a resistor  $\leq 1\text{k}\Omega$  is connected between Gate and Cathode. Without this resistor, the  $T_j$  is up to  $110^\circ\text{C}$  only.

>  $dZ/dt$  ,  $Z$   $dZ/dt$  / unless otherwise specified

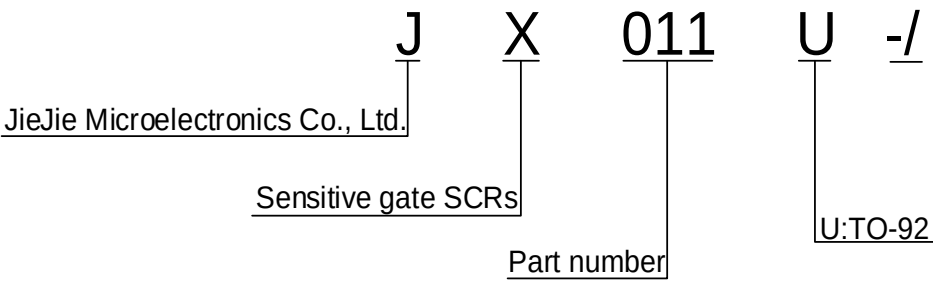
| Symbol    | Test Condition                                                     | Value |      |      | Unit                   |
|-----------|--------------------------------------------------------------------|-------|------|------|------------------------|
|           |                                                                    | MIN.  | TYP. | MAX. |                        |
| $I_{GT}$  | $V_D=12\text{V}$ $R_L=33\Omega$                                    | -     | 40   | 200  | $\mu\text{A}$          |
| $V_{GT}$  |                                                                    | -     | 0.6  | 0.8  | V                      |
| $V_{GD}$  | $V_D=V_{DRM}$ $T_j=125^\circ\text{C}$                              | 0.2   | -    | -    | V                      |
| $I_L$     | $I_G=1.2 I_{GT}$                                                   | -     | -    | 5    | mA                     |
| $I_H$     | $I_T=0.05\text{A}$                                                 | -     | -    | 4    | mA                     |
| $dV/dt$   | $V_D=540\text{V}$ $T_j=125^\circ\text{C}$ $R_{GK}=1\text{k}\Omega$ | 200   | -    | -    | $\text{V}/\mu\text{s}$ |
|           | $V_D=540\text{V}$ $T_j=125^\circ\text{C}$ $R_{GK}=220\Omega$       | 500   | -    | -    |                        |
| $t_{on}$  | $I_G=10\text{mA}$ $I_A=20\text{mA}$ $I_R=2\text{mA}$               | -     | 2    | -    | $\mu\text{s}$          |
| $t_{off}$ | $T_j=25^\circ\text{C}$                                             | -     | 50   | -    | $\mu\text{s}$          |

$dV/dt$  ,  $Z$   $dZ/dt$  /

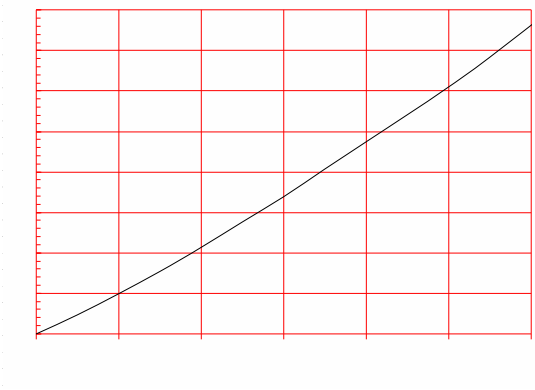
| Symbol   | Parameter                                                   | Value(MAX.) | Unit |
|----------|-------------------------------------------------------------|-------------|------|
| $V_{TM}$ | $I_T=2\text{A}$ $t_p=380\mu\text{s}$ $T_j=25^\circ\text{C}$ | 1.4         | V    |

JX011U

K Z    Z / E '   / E & K Z D   d / K E



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



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

**JX011U**

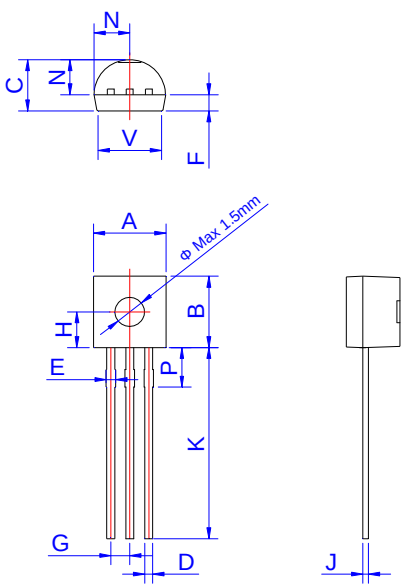
K Z Z / E ' / E &amp; K Z D d / K E

| Order code | Voltage<br>V <sub>DRM</sub> /V <sub>RRM</sub> (V) | IGT(εA) | Package | Base qty.<br>(pcs) | Delivery<br>mode |
|------------|---------------------------------------------------|---------|---------|--------------------|------------------|
| JX011U     | 800                                               | 0200    | TO-92   | 1,000              | Bulk Pack        |
| JX011U-TR  |                                                   |         |         | 2,000              | Tape & Reel      |

## Document Revision History

| Date          | Revision | Changes                        |
|---------------|----------|--------------------------------|
| Apr.12, 2023  | A.1.0    | Last update                    |
| Mar.28, 2025  | A.2.0    | Renew PACKAGE MECHANICAL DATA  |
| Sept.28, 2025 | A.2.1    | Revise PACKAGE MECHANICAL DATA |

W < ' D , E / > d



| Ref. | Dimensions  |      |       |        |      |       |
|------|-------------|------|-------|--------|------|-------|
|      | Millimeters |      |       | Inches |      |       |
|      | Min.        | Typ. | Max.  | Min.   | Typ. | Max.  |
| A    | 4.45        |      | 5.20  | 0.175  |      | 0.205 |
| B    | 4.32        |      | 5.33  | 0.170  |      | 0.210 |
| C    | 3.18        |      | 4.19  | 0.125  |      | 0.165 |
| D    | 0.407       |      | 0.533 | 0.016  |      | 0.021 |
| E    | 0.50        |      | 0.70  |        |      |       |
| F    | 1.10        |      |       |        |      |       |
| G    |             |      |       | 0.043  |      |       |
| H    | 2.20        |      |       | 0.087  |      |       |
| J    | 0.36        |      | 0.50  | 0.014  |      | 0.020 |
| K    | 12.70       |      | 15.0  | 0.500  |      | 0.591 |
| N    | 2.04        |      | 2.66  | 0.080  |      | 0.105 |
| P    | 1.80        | 10   | 2.30  | 0.071  |      | 0.091 |
| V    | 4.10        |      | 4.50  | 0.161  |      | 0.177 |

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