

RoHS Compliant Product

A suffix of "-C" specifies halogen & lead-free

Features

Forward Current

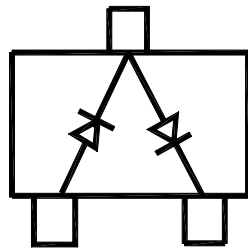
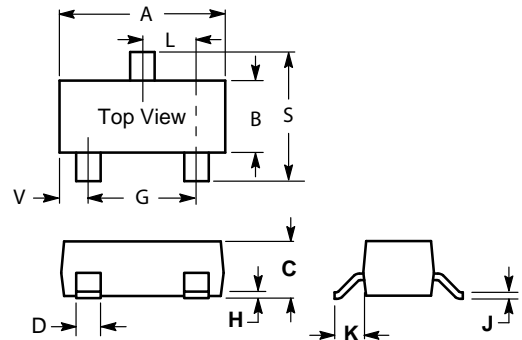
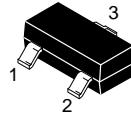
I_F : 215 mA

Reverse Voltage

V_R : 70 V

Operating and storage junction temperature range

T_J, T_{stg} : -55 to +150 °C

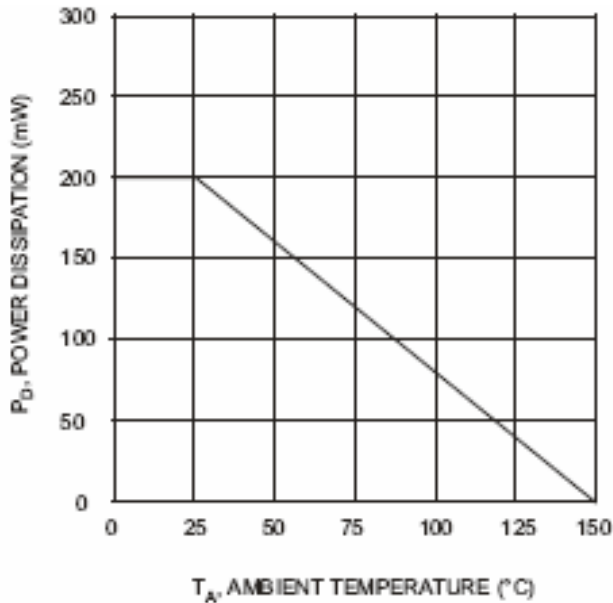


Marking JY

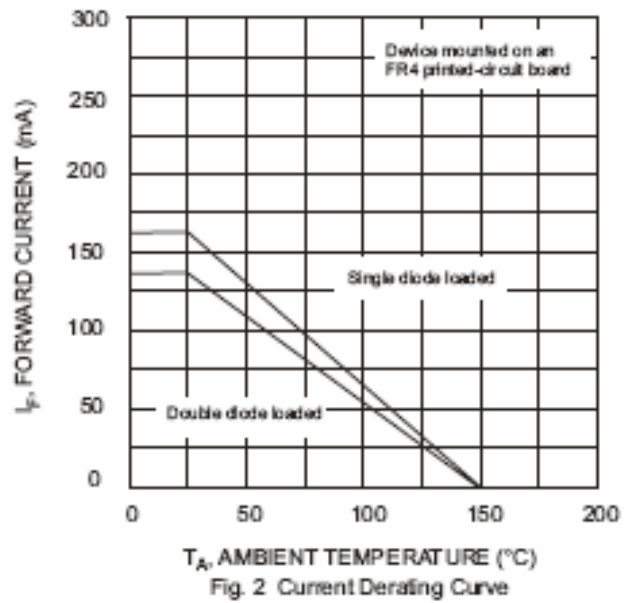
| SOT-23 | | |
|---------------------|-------|-------|
| Dim | Min | Max |
| A | 2.800 | 3.040 |
| B | 1.200 | 1.400 |
| C | 0.890 | 1.110 |
| D | 0.370 | 0.500 |
| G | 1.780 | 2.040 |
| H | 0.013 | 0.100 |
| J | 0.085 | 0.177 |
| K | 0.450 | 0.600 |
| L | 0.890 | 1.020 |
| S | 2.100 | 2.500 |
| V | 0.450 | 0.600 |
| All Dimension in mm | | |

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

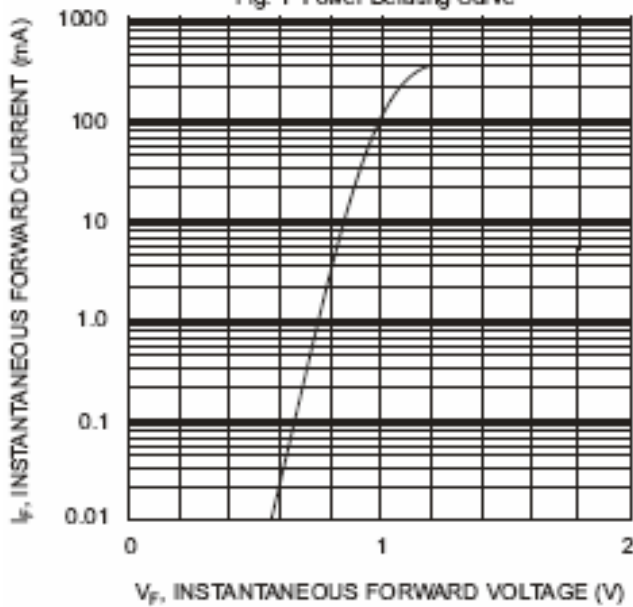
| Parameter | Symbol | Test conditions | MIN | MAX | UNIT |
|---------------------------------|------------|--|-----|-----------------------------|---------|
| Reverse breakdown voltage | $V_{(BR)}$ | $I_R = 100\mu A$ | 70 | | V |
| Reverse voltage leakage current | I_R | $V_R = 70V$ | | 5 | nA |
| Forward voltage | V_F | $I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 150mA$ | | 900 1000 1100 1250 | mV |
| Diode capacitance | C_D | $V_R = 0V, f = 1MHz$ | | 2 | pF |
| Reverse recovery time | t_{rr} | | | 3 | μS |



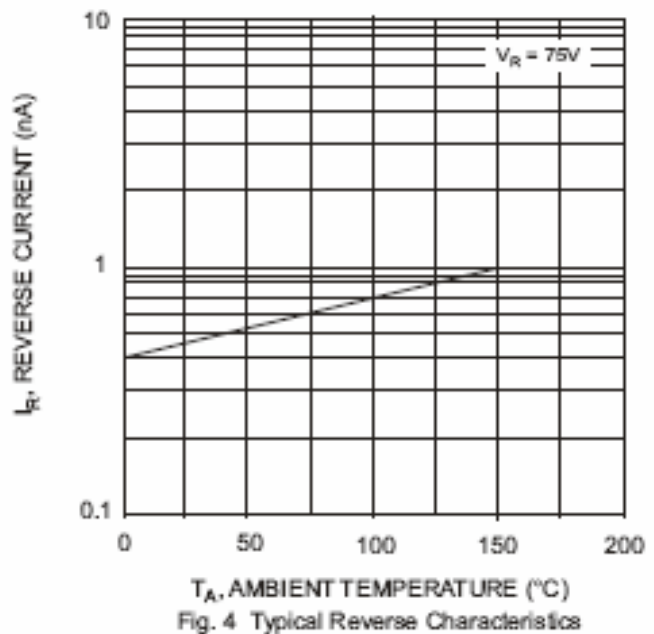
T_A , AMBIENT TEMPERATURE (°C)
Fig. 1 Power Derating Curve



T_A , AMBIENT TEMPERATURE (°C)
Fig. 2 Current Derating Curve



V_F , INSTANTANEOUS FORWARD VOLTAGE (V)
Fig. 3 Typical Forward Characteristics



T_A , AMBIENT TEMPERATURE (°C)
Fig. 4 Typical Reverse Characteristics