



RB491D

SCHOTTKY BARRIER DIODE

FEATURES

- Low Current Rectification
- Small mold type
- Low I_R
- High Reliability
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-23, Plastic

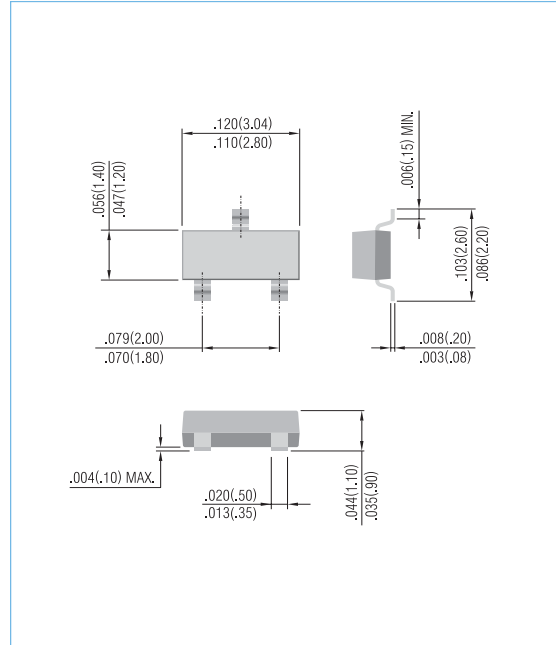
Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.008 gram

Marking Code: 12D

SOT-23

Unit: inch (mm)



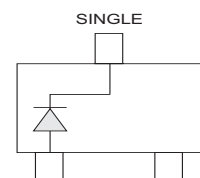
ABSOLUTE MAXIMUM RATINGS ($T_A=25^{\circ}\text{C}$)

| Parameter | Symbol | Value | Units |
|--|----------------|-------------|--------------------|
| Reverse voltage (reptitive peak) | V_{RM} | 25 | V |
| Reverse voltage (DC) | V_R | 20 | V |
| Maximum average rectified forward current (Note 1) | I_O | 1 | A |
| Forward current surge peak (60Hz · 1cyc)(Note 1) | I_{FSM} | 3 | A |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +125 | $^{\circ}\text{C}$ |

ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$)

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Unit |
|-----------------|--------|------------------|------|------|------|---------------|
| Forward voltage | V_F | $I_F=1\text{A}$ | - | - | 0.45 | V |
| Reverse current | I_R | $V_R=20\text{V}$ | - | - | 200 | μA |

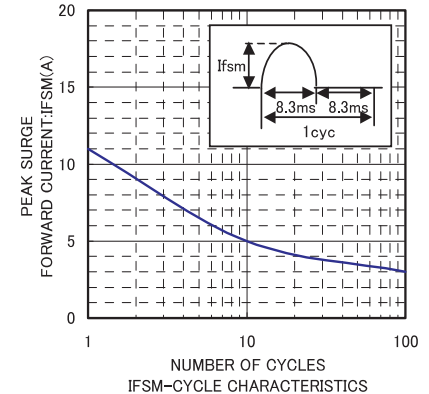
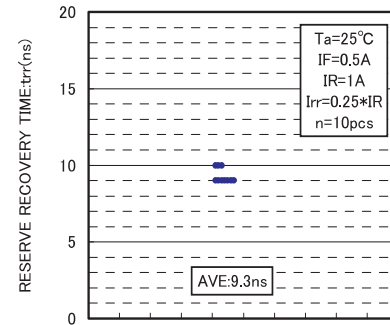
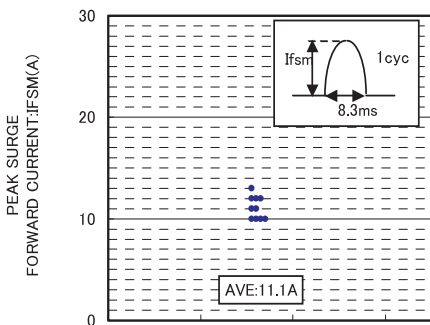
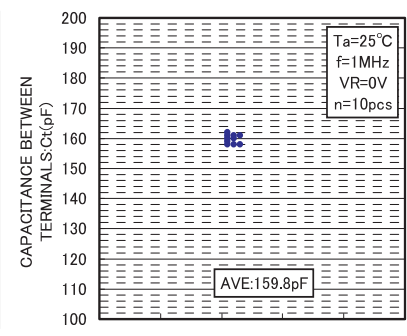
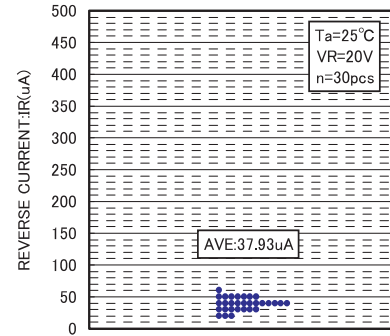
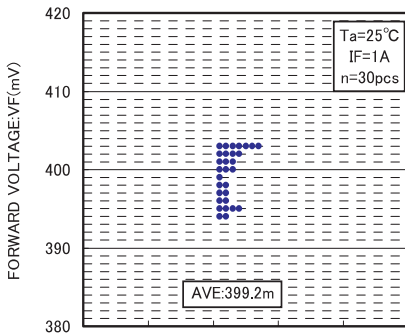
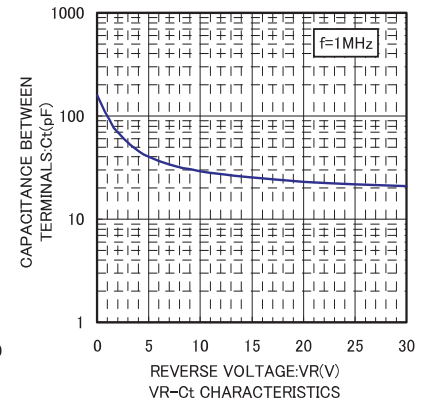
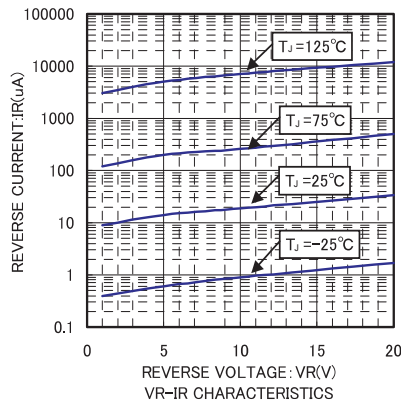
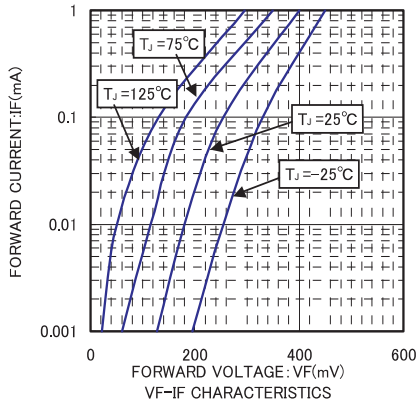
Note : 1.Rating of per diode





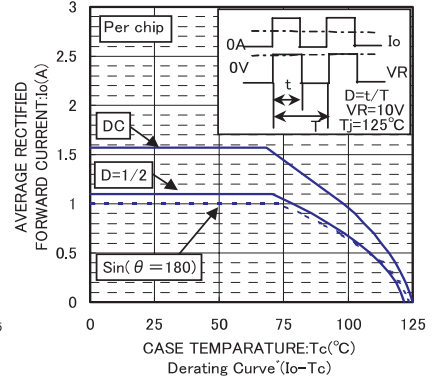
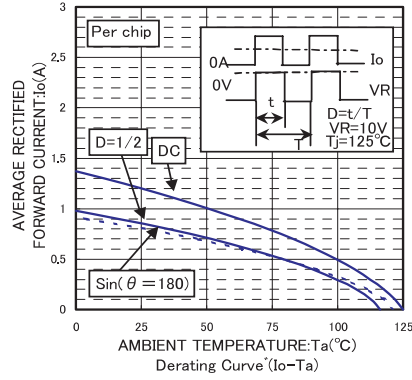
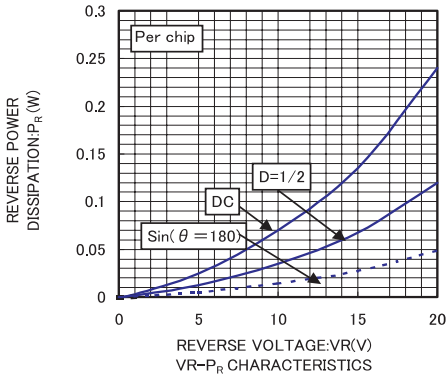
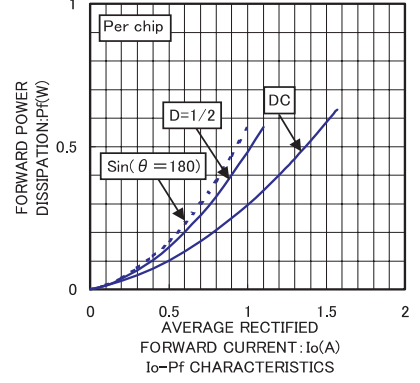
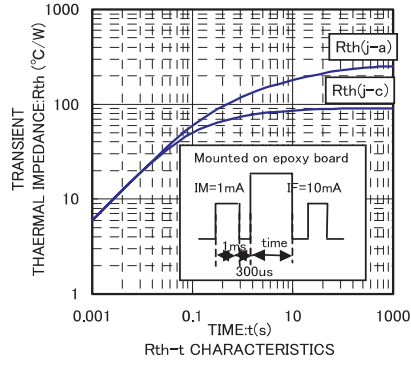
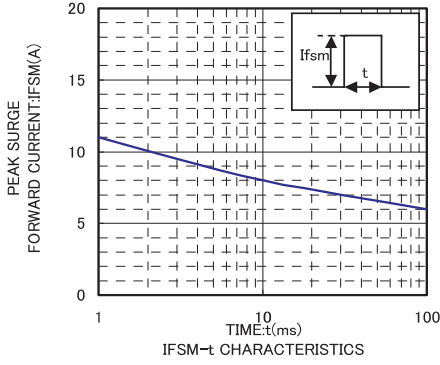
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ELECTRICAL CHARACTERISTIC CURVES (Ta=25°C)





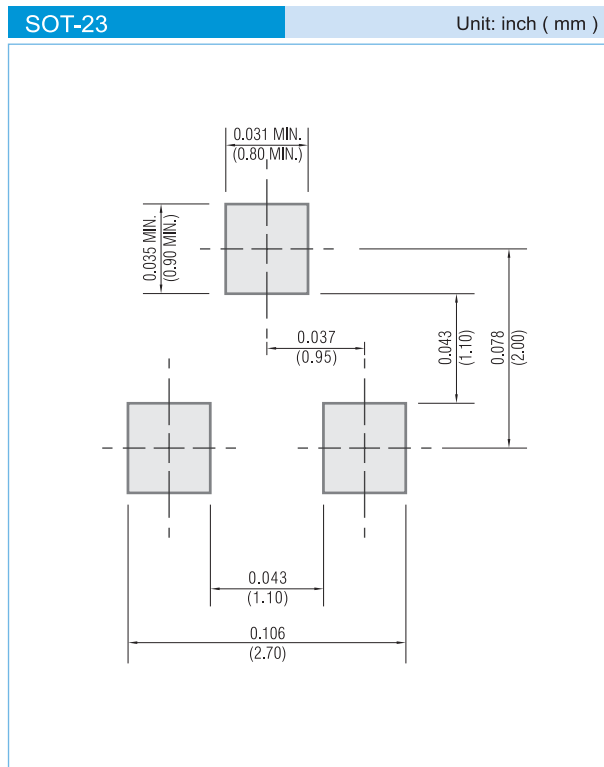
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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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