

Schottky barrier diode

LRB411DLT1G

●Applications

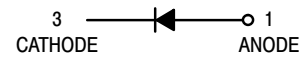
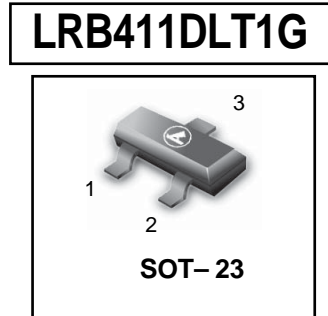
Low current rectification

●Features

- 1) Small mold type. (SOT-23)
- 2) Low I_R
- 3) High reliability.

●Construction

Silicon epitaxial planar



- We declare that the material of product compliance with RoHS requirements.

●Absolute maximum ratings (Ta = 25°C)

| Parameter | Symbol | Limits | Unit |
|---|-----------|-------------|------|
| Reverse voltage (repetitive peak) | V_{RM} | 40 | V |
| Reverse voltage (DC) | V_R | 20 | V |
| Average rectified forward current (*1) | I_o | 500 | mA |
| Forward current surge peak (60Hz·1cyc) (*1) | I_{FSM} | 3 | A |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -40 to +125 | °C |

(*1) Rating of per diode

●Electrical characteristics (Ta = 25°C)

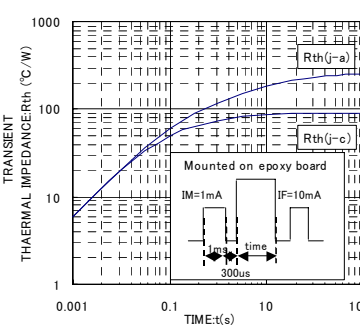
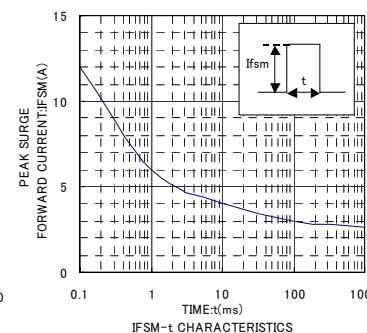
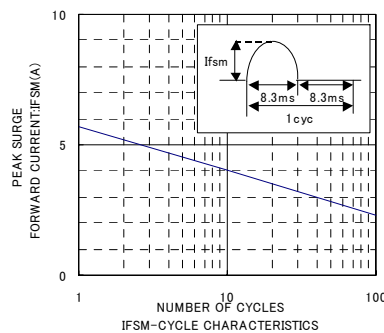
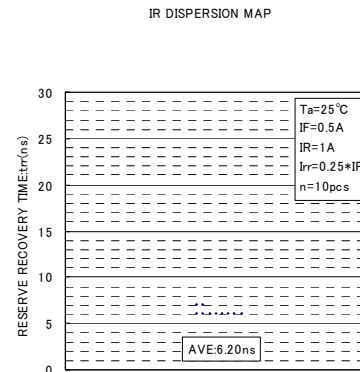
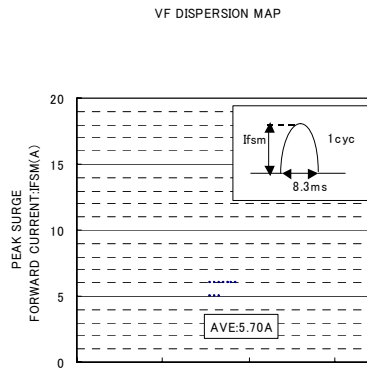
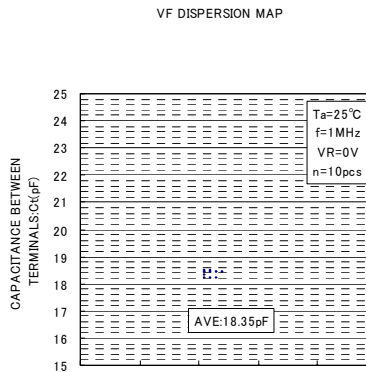
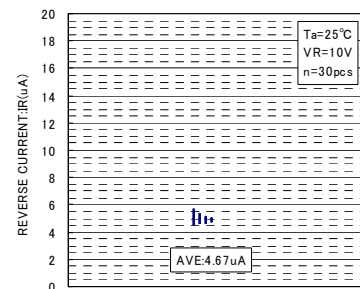
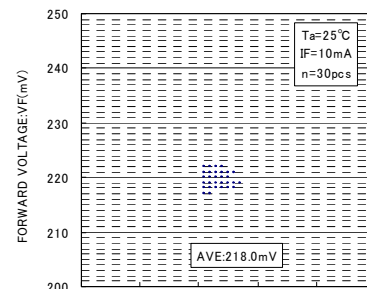
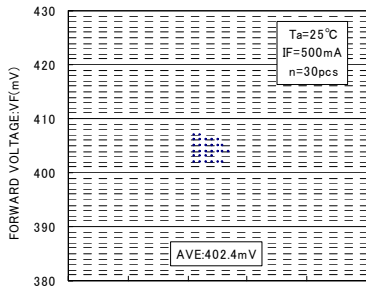
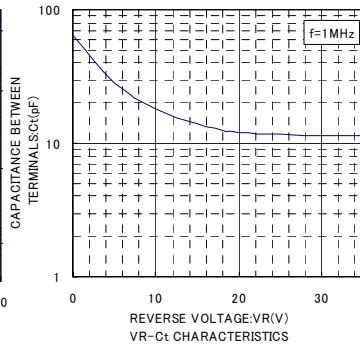
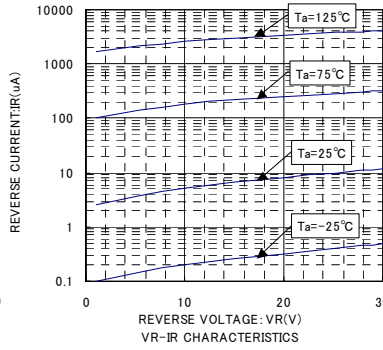
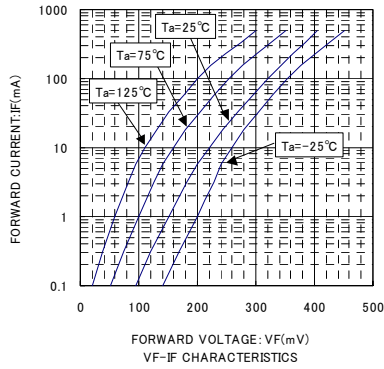
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|------------------------------|----------|------|------|------|---------|-------------------|
| Forward voltage | V_{F1} | - | - | 0.50 | V | $I_F=500mA$ |
| | V_{F2} | - | - | 0.30 | V | $I_F=10mA$ |
| Reverse current | I_{R1} | - | - | 30 | μA | $V_R=10V$ |
| Capacitance between terminal | C_{t1} | - | 20 | - | pF | $V_R=10V, f=1MHz$ |

●Device marking and ordering information

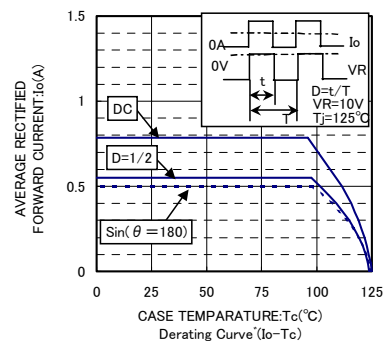
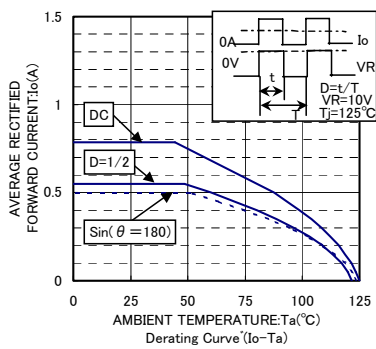
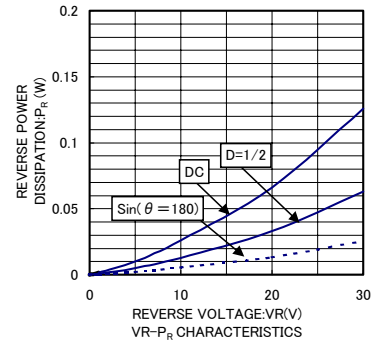
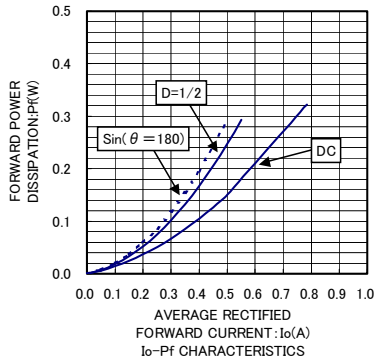
| Device | Marking | Shipping |
|-------------|---------|-----------------|
| LRB411DLT1G | D3E | 3000/Tape&Reel |
| LRB411DLT3G | D3E | 10000/Tape&Reel |

LRB411DLT1G

Electrical characteristic curves (Ta = 25°C)

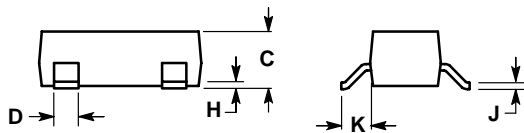
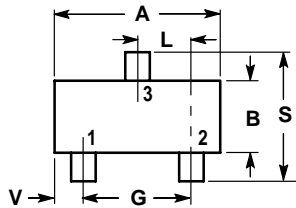


LRB411DLT1G



LRB411DLT1G

SOT-23



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

| DIM | INCHES | | MILLIMETERS | |
|-----|--------|--------|-------------|-------|
| | MIN | MAX | MIN | MAX |
| A | 0.1102 | 0.1197 | 2.80 | 3.04 |
| B | 0.0472 | 0.0551 | 1.20 | 1.40 |
| C | 0.0350 | 0.0440 | 0.89 | 1.11 |
| D | 0.0150 | 0.0200 | 0.37 | 0.50 |
| G | 0.0701 | 0.0807 | 1.78 | 2.04 |
| H | 0.0005 | 0.0040 | 0.013 | 0.100 |
| J | 0.0034 | 0.0070 | 0.085 | 0.177 |
| K | 0.0140 | 0.0285 | 0.35 | 0.69 |
| L | 0.0350 | 0.0401 | 0.89 | 1.02 |
| S | 0.0830 | 0.1039 | 2.10 | 2.64 |
| V | 0.0177 | 0.0236 | 0.45 | 0.60 |

- PIN 1. ANODE
 2. NO CONNECTION
 3. CATHODE

