

Schottky barrier diode

LRB461WT1G

●Applications

- 1) Low-power rectification
- 2) For switching power supply

●Features

- 1) Small mold type. (SC-70)
- 2) Ultra low V_F . ($V_F=0.45V$ Typ. at 0.7A)
- 3) $I_F=0.7A$ guaranteed despite the size.
- 4) S- Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements;AEC-Q101 Qualified and PPAP Capable.


●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 |
|----------------------------|-------------|----------|------|
| Peak reverse voltage | V_{RM} | 25 | V |
| DC reverse voltage | V_R | 20 | V |
| DC forward current | I_F | 0.7 | A |
| Peak forward surge current | * I_{FSM} | 3 | A |
| Junction temperature | T_j | 125 | °C |
| Storage temperature | T_{stg} | -40~+125 | °C |

* 60Hz for 1 

●Electrical characteristics (Ta = 25°C)

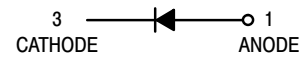
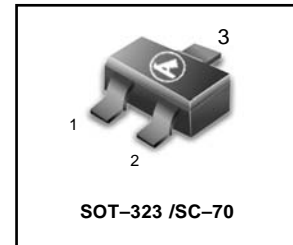
| Parameter | Symbol | Min. | Typ. | Max. | Unit | Conditions |
|-----------------|--------|------|------|------|---------|------------|
| Forward voltage | V_F | - | - | 0.49 | V | $I_F=0.7A$ |
| Reverse current | I_R | - | - | 200 | μA | $V_R=20V$ |

Note) ESD sensitive product handling required.

●Device marking and ordering information

| Device | Marking | Shipping |
|----------------------------|---------|-----------------|
| LRB461WT1G S-LRB461WT1G | 3B | 3000/Tape&Reel |
| LRB461WT1G S-LRB461WT1G | 3B | 10000/Tape&Reel |

LRB461WT1G
S-LRB461WT1G



LRB461WT1G , S-LRB461WT1G

Electrical characteristic curves (Ta = 25°C)

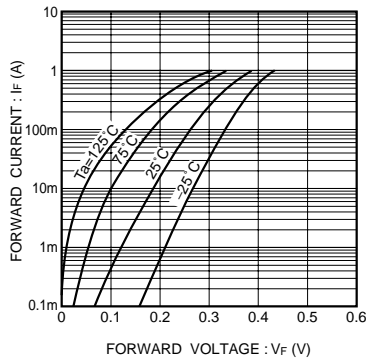


Fig.1 Forward characteristics

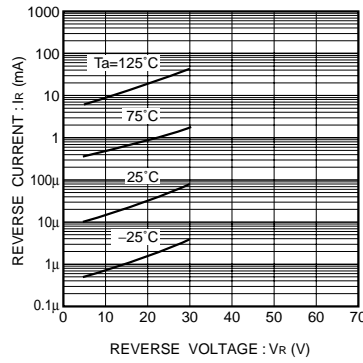


Fig.2 Reverse characteristics

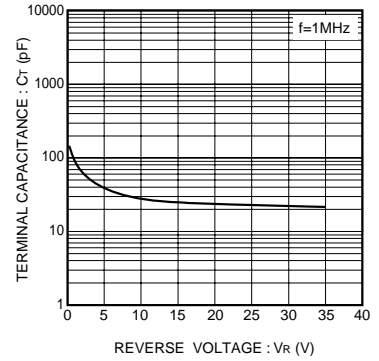


Fig.3 Capacitance between terminals characteristics

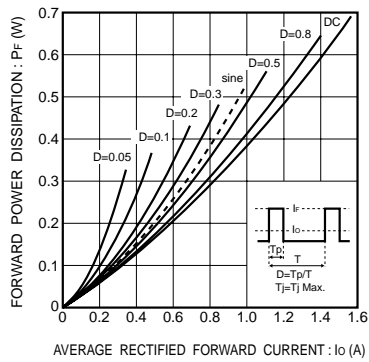


Fig.4 Forward power dissipation characteristics

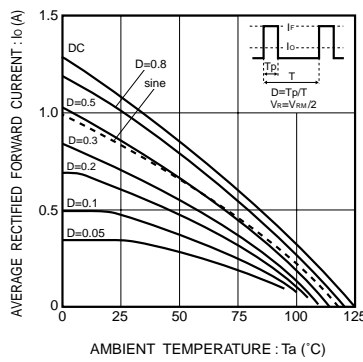
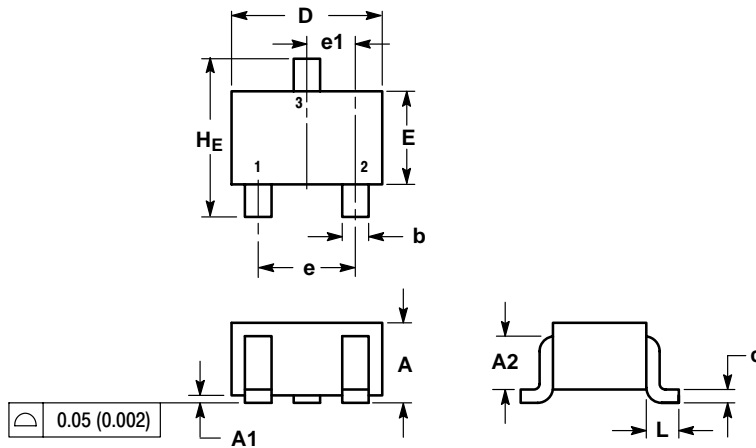


Fig.5 Derating curve (Io - Ta)

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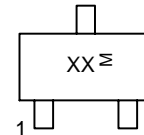
SC-70



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

| DIM | MILLIMETERS | | | INCHES | | |
|-----|-------------|------|------|-----------|-------|-------|
| | MIN | NOM | MAX | MIN | NOM | MAX |
| A | 0.80 | 0.90 | 1.00 | 0.032 | 0.035 | 0.040 |
| A1 | 0.00 | 0.05 | 0.10 | 0.000 | 0.002 | 0.004 |
| A2 | 0.7 REF | | | 0.028 REF | | |
| b | 0.30 | 0.35 | 0.40 | 0.012 | 0.014 | 0.016 |
| c | 0.10 | 0.18 | 0.25 | 0.004 | 0.007 | 0.010 |
| D | 1.80 | 2.10 | 2.20 | 0.071 | 0.083 | 0.087 |
| E | 1.15 | 1.24 | 1.35 | 0.045 | 0.049 | 0.053 |
| e | 1.20 | 1.30 | 1.40 | 0.047 | 0.051 | 0.055 |
| e1 | 0.65 BSC | | | 0.026 BSC | | |
| L | 0.425 REF | | | 0.017 REF | | |
| HE | 2.00 | 2.10 | 2.40 | 0.079 | 0.083 | 0.095 |

GENERIC MARKING DIAGRAM



- XX = Specific Device Code
- ≅ = Date Code
- = Pb-Free Package

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present.

SOLDERING FOOTPRINT*

