Schottky Barrier Diode

DB2X41500L

Unit: mm

DB2X41500L

Panasonic

Silicon epitaxial planar type

For frequency rectification

■ Features

- · Low forward voltage VF
- Forward current (Average) IF(AV) = 3 A rectification is possible
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: AD

■ Packaging

Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

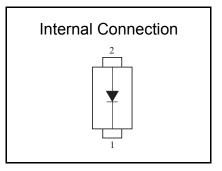
| 1.6 | | <u>0. 13</u> | | |
|-----------------------|------------|--------------|--|--|
| 2 | | | | |
| | 3.5 | | | |
| 1 | | | | |
| 0. 55 | | | | |
| 1. Cathoo 2. Anode | | | | |
| Panasonic | Mini2-F4-B | | | |
| JEITA | SC-109D | | | |
| Code | SOD-123 | | | |

■ Absolute Maximum Ratings Ta = 25 °C

| Parameter | Symbol | Rating | Unit |
|---|--------|------------------|------|
| Reverse voltage | VR | 40 | V |
| Forward current (Average) *1 | IF(AV) | 3.0 | Α |
| Non-repetitive peak forward surge current | IFSM | 50 ^{*2} | Α |
| | ILOM | 15 ^{*3} | Α |
| Junction temperature | Tj | 125 | °C |
| Operating ambient temperature | Topr | -40 to +85 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

Note: *1 TI = 60 °C / DC

- *2 Rectangle wave 1 cycle (Pulse width = 50 μs, non-repetitive peak current)
- *3 50 Hz sine wave 1 cycle (Non-repetitive peak current)



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■ Electrical Characteristics Ta = 25 °C ± 3 °C

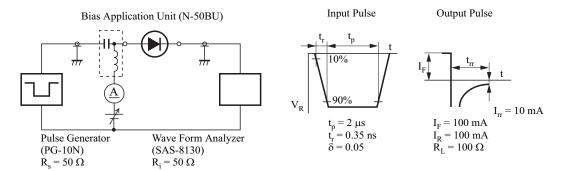
| Parameter | Symbol | Conditions | Min | Тур | Max | Unit |
|--------------------------|--------|--------------------------------|-----|------|------|------|
| Forward voltage | VF1 | IF = 1.0 A | | 0.35 | 0.44 | V |
| | VF2 | IF = 3.0 A | | 0.47 | 0.55 | |
| Reverse current | IR | VR = 40V | | 40 | 200 | μA |
| Terminal capacitance | Ct | VR = 10 V, f = 1 MHz | | 70 | | pF |
| Reverse recovery time *1 | trr | IF = IR = 100 mA | | 25 | | ns |
| | | Irr = 10 mA, RL = 100 Ω | | | | |

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.
 - 2. This product is sensitive to electric shock (static electricity, etc.). Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment.
 - 3. *1 trr test circuit

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: 2013-04-24

Revised

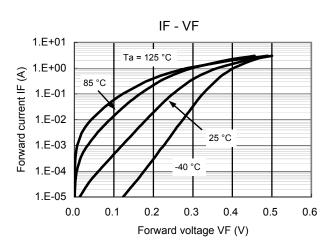


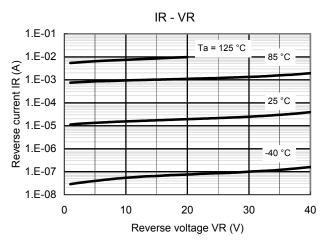
Schottky Barrier Diode

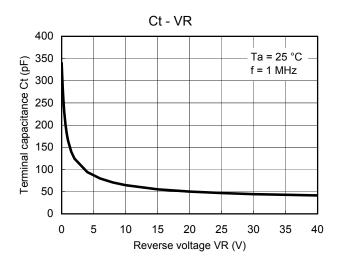
DB2X41500L

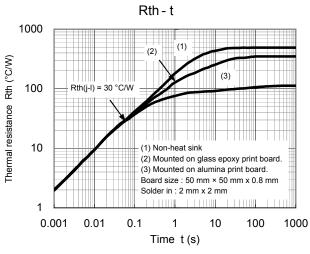
Panasonic

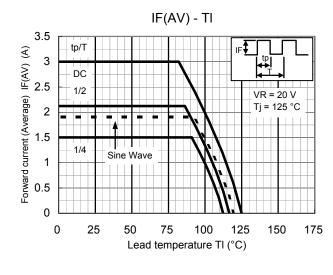
Technical Data (reference)

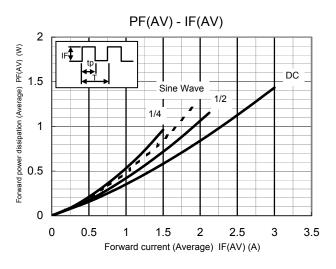












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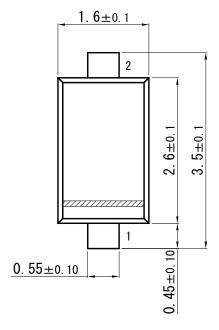
Panasonic

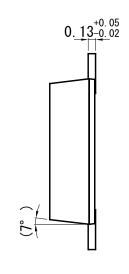
Schottky Barrier Diode

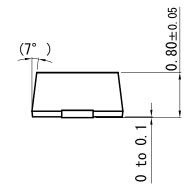
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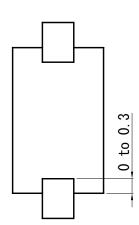
Mini2-F4-B

Unit: mm

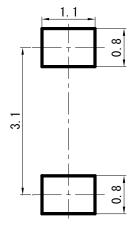








■ Land Pattern (Reference) (Unit: mm)



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