



BD1040S

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

VOLTAGE 40 Volt **CURRENT** 10 Ampere

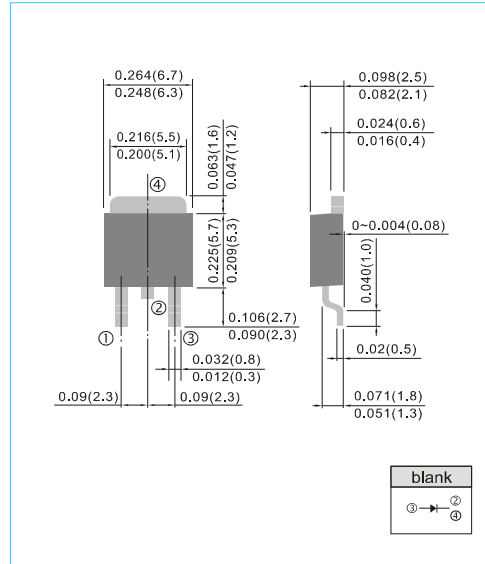
TO-252 Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- Low power loss, High efficiency
- High surge capacity
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: TO-252 molded plastic
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity: As marking
 Standard packaging: 16mm tape (EIA-481)
 Weight: 0.0104 ounces, 0.297grams.
 Marking: Part number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

| PARAMETER | SYMBOL | VALUE | UNITS |
|---|-----------------------------------|-------------|--------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 40 | V |
| Maximum RMS Voltage | V _{RMS} | 28 | V |
| Maximum DC Blocking Voltage | V _R | 40 | V |
| Maximum Average Forward Current | I _{F(AV)} | 10 | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | I _{FSM} | 200 | A |
| Maximum Forward Voltage at 10A | V _F | 0.7 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I _R | 50 | μA |
| Typical Thermal Resistance (Note 1) | R _{θJC} | 4 | °C / W |
| Operating Junction and Storage Temperature Range | T _J , T _{STG} | -55 to +150 | °C |

Note : 1. Mounted on infinite heatsink.



BD1040S

RATING AND CHARACTERISTIC CURVES

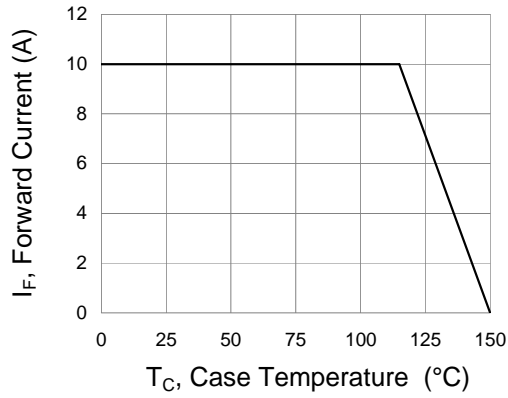


Fig.1 Forward Current Derating Curve

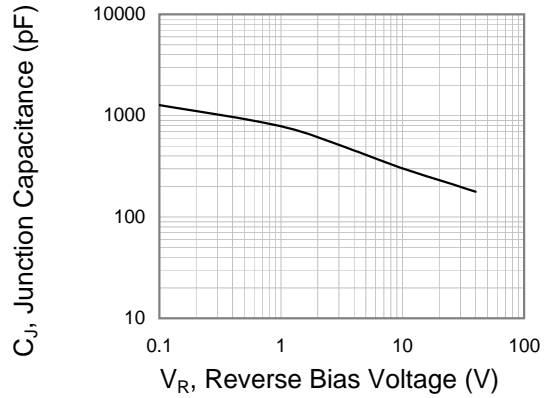


Fig.2 Typical Junction Capacitance

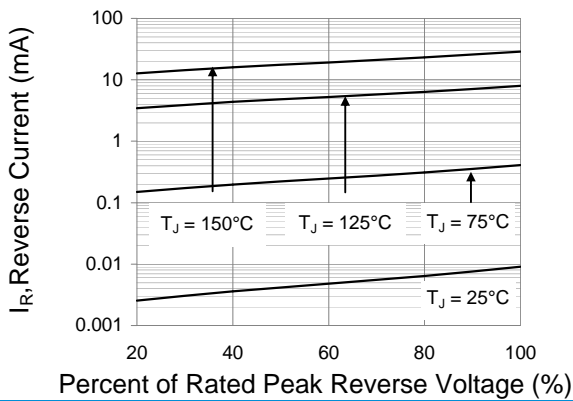


Fig.3 Typical Reverse Characteristics

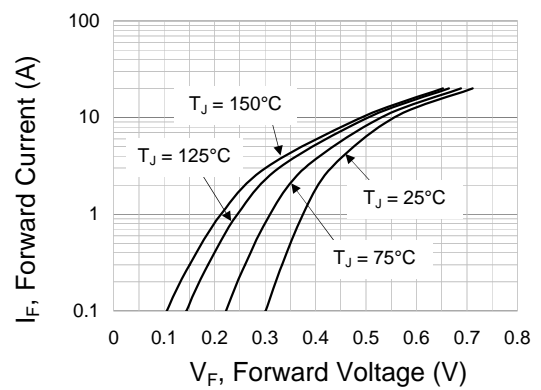


Fig.4 Typical Forward Characteristics

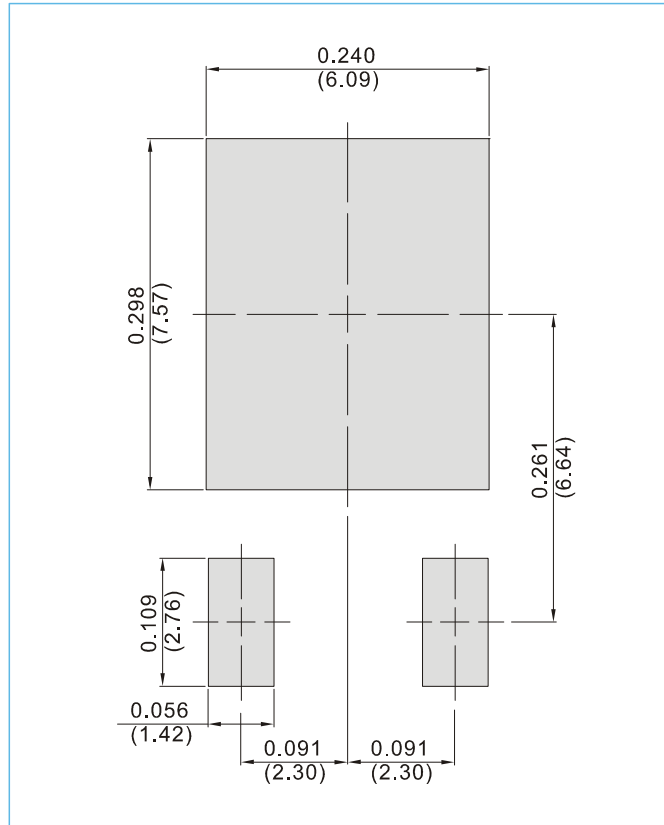


BD1040S

MOUNTING PAD LAYOUT

TO-252

Unit : inch(mm)



ORDER INFORMATION

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



BD1040S

Part No_packing code_Version

BD1040S_L2_00001

BD1040S_S2_00001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|----------------------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| Tape and Ammunition Box (T/B) | A | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | B | 13" | 2 | | | |
| Tube Packing (T/P) | T | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |



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