



SDI260 / SDI2100

MICRO SURFACE MOUNT SCHOTTKY BRIDGE

VOLTAGE 60 / 100 Volts **CURRENT** 2 Amperes

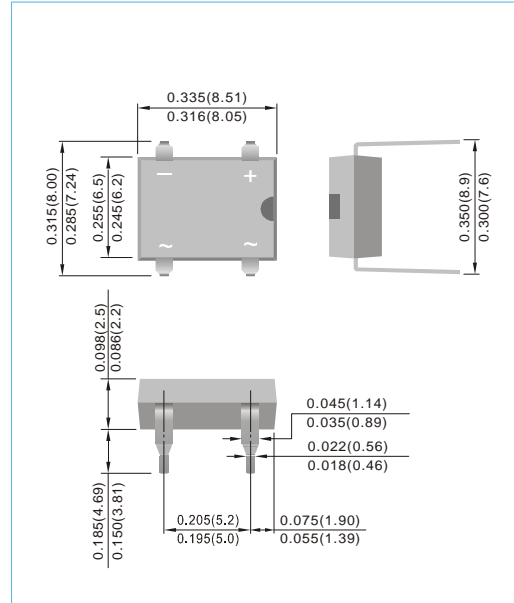
DIP Unit : inch(mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- Low power loss, high efficiency.
- Low forward voltage, high current capability
- High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- Ultra thin profile package for space constrained utilization
- Lead free in comply with EU RoHS 2011/65/EU directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: Reliable construction utilizing molded plastic technique results in product
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- Polarity: Polarity symbols molded or marking on body
- Weight: 0.011 ounce, 0.4 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, Resistive or inductive load.
For capacitive load, derate current by 20%

| PARAMETER | SYMBOL | SDI260 | SDI2100 | UNITS |
|--|-----------------|--------------|---------|--------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 60 | 100 | V |
| Maximum RMS Voltage | V_{RMS} | 42 | 70 | V |
| Maximum DC Blocking Voltage | V_{DC} | 60 | 100 | V |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 2 | | A |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method) per diode | I_{FSM} | 50 | | A |
| Maximum Forward Voltage at 2A per diode | V_F | 0.68 | 0.84 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage per diode | I_R | 50 | 4 | uA |
| Typical Junction Capacitance ($V_R=4V, f=1MHz$) | C_J | 130 | 125 | pF |
| Typical Thermal Resistance per diode (Note 1) | $R_{\theta JA}$ | 85 | 85 | °C / W |
| (Note 2) | $R_{\theta JL}$ | 31 | 20 | |
| Operating and Storage Temperature Range | T_J | -55 to + 150 | | °C |
| Storage Temperature Range | T_{STG} | -55 to + 150 | | °C |

NOTES:

1. Mounted on an FR4 PCB, single-sided copper, mini pad.
2. Mounted on an FR4 PCB, single-sided copper, with 48cm² copper pad area.



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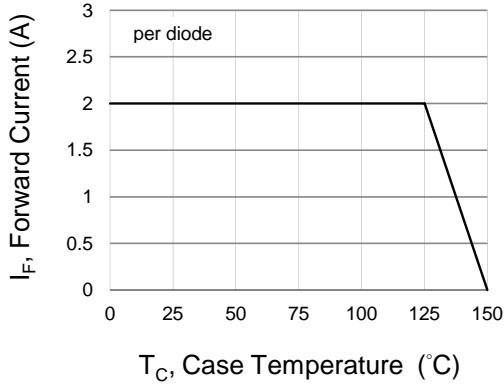


Fig.1 Forward Current Derating Curve

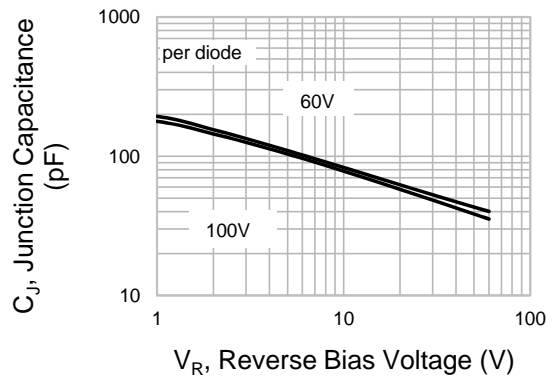


Fig.2 Typical Junction Capacitance

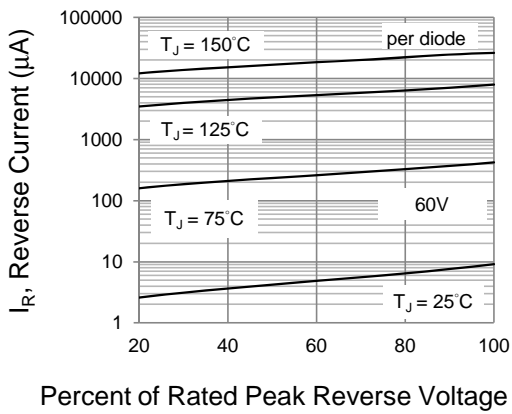


Fig.3 Typical Reverse Characteristics

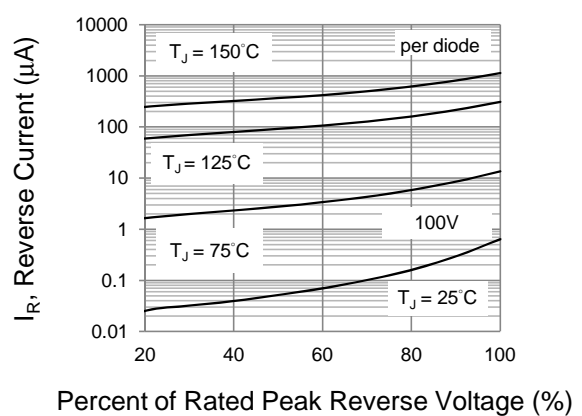


Fig.4 Typical Reverse Characteristics

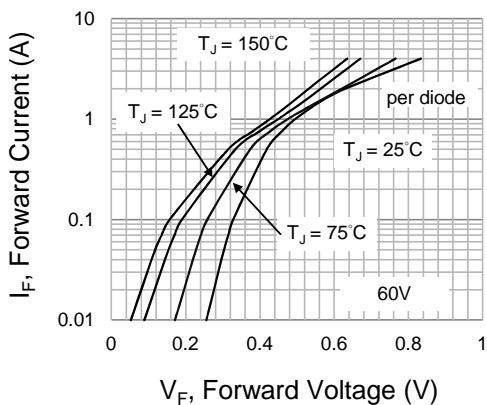


Fig.5 Typical Forward Characteristics

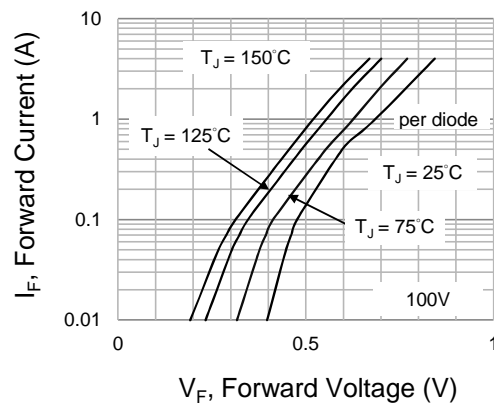


Fig.6 Typical Forward Characteristics



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Part No_packing code_Version

SDI260_T0_00001

For example :

RB500V-40_R2_00001



| Packing Code XX | | | | Version Code XXXXX | | |
|--------------------------------------|----------------------|----------------------------------|----------------------|--------------------|----------------------|---------------------------------------|
| 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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