



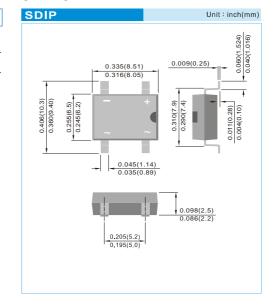
SURFACE MOUNT GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volt CURRENT 1.5 Ampere

Recongnized File #E111753

FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating-50 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)



MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique results

in inexpensive product

Terminals: Lead solderable per MIL-STD-750, Method 2026 Polarity: Polarity symbols molded or marking on body

Weight: 0.0105 ounce, 0.3 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 | | DI150S | DI151S | DI152S | DI154S | DI156S | DI158S | DI1510S | UNITS |
|---|------|--------------|--------|--------|--------|--------|--------|---------|-------|
| Maximum Recurrent Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| Maximum RMS Bridge Input Voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | ٧ |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | ٧ |
| Maximum Average Forward Current TA=40°C | | 1.5 | | | | | | Α | |
| Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load | | 50 | | | | | | Α | |
| I ² t Rating for fusing (t<8.35ms) | | 10 | | | | | | A²t | |
| Maximum Forward Voltage Drop per Bridge Element at 1A | | 1.1 | | | | | | ٧ | |
| Maximum DC Reverse Current at Rated DC Blocking TJ=25°C Voltage TJ=125°C | | 5 500 | | | | | | μΑ | |
| Typical Junction Capacitance (Note 1) | Сл | | | | 25 | | | | pF |
| Typical Thermal Resistance per leg (Note 2) | | 40 15 | | | | | | °C / W | |
| Operating and Storage Temperature Range | | -55 to + 150 | | | | | | °C | |

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4 Volts
- 2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X 0.5"(13 X 13mm) copper pads





RATING AND CHARACTERISTIC CURVES

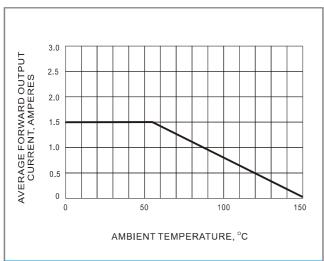


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

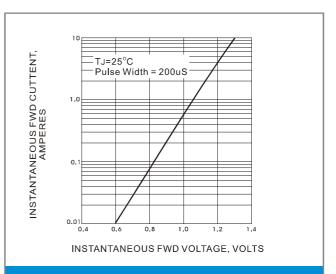
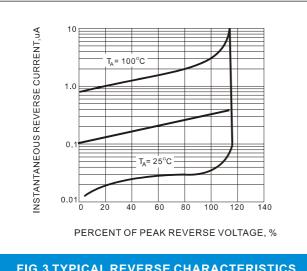


FIG.2 TYPICAL FORWARD CHARACTERISTICS





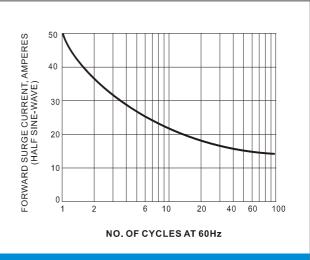


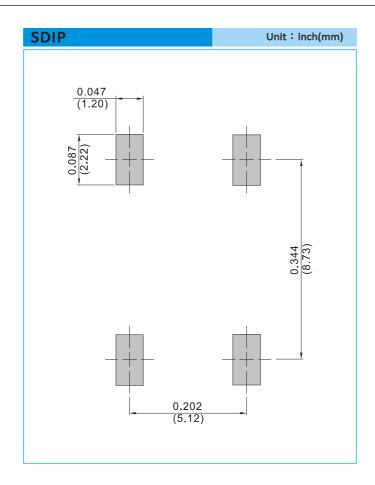
FIG.4 MAX NON-REPETITIVE SURGE CURRENT

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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 1.5K per 13" plastic Reel

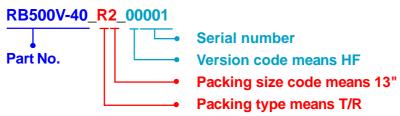




Part No_packing code_Version

DI150S_R2_00001 DI150S_T0_00001

For example:



| 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) | Α | N/A | 0 | HF | 0 | serial number | | | |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number | | | |
| Bulk Packing (B/P) | В | 13" | 2 | | | | | | |
| Tube Packing (T/P) | Т | 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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