

DUAL-IN-LINE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER VOLTAGE 50 to 1000 Volts CURRENT 1.5 Amperes DIP Unit : inch (mm) EN Recongnized File #E111753 **FEATURES** .335(8.51) .316(8.05) • Plastic material used carries Underwriters Laboratory recognition 94V-O · Low leakage 255(6.5) 245(6.2) 315(8.00) 285(7.24) 350(8.9) 300(7.6) Surge overload rating-- 50 amperes peak · Ideal for printed circuit board • Exceeds environmental standards of MIL-S-19500/228 · Lead free in comply with EU RoHS 2011/65/EU directives • Green molding compound as per IEC61249 Std. . (Halogen Free) **MECHANICALDATA** .045(1.14) .035(0.89) Case: Reliable low cost construction utilizing molded plastic technique results in .022(0.56) inexpensive product .018(0.46) • Terminals: Lead solderable per MIL-STD-750, Method 2026 185(4.69) 150(3.81) · Polarity: Polarity symbols molded or marking on body .075(1.90) .205(5.2) Mounting Position: Any .055(1.39) • Weight: 0.02 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 | D1150 | D1151 | DI152 | D1154 | D1156 | D1158 | DI1510 | UNITS |
|--|--------------------------------------|--------------|-------|-------|-------|-------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | v |
| Maximum RMS Bridge Input Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Current T _A =40°C | I _{F(AV)} | 1.5 | | | | | | | A |
| Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load (JEDEC method) | I _{fsm} | 50 | | | | | | | A |
| l²t Rating for fusing (t<8.35ms) | l² t | 10 | | | | | | A²t | |
| Maximum Forward Voltage Drop per Bridge Element at 1.0A | V _F | 1.1 | | | | | | V | |
| Maximum DC Reverse Current T,=25 °C at Rated DC Blocking VoltageT,=125 °C | I _R | 5.0 500 | | | | | | uA | |
| Typical Junction capacitance (Note 1) | C | 25 | | | | | | рF | |
| Typical thermal resistance per leg ((Note 2) | R _{eja} R _{ejl} | 40 15 | | | | | °C / W | | |
| Operating and Storage Temperature Range | TJ | -55 to + 125 | | | | | °C | | |
| Storage Temperature Range | T _{stg} | -55 to + 150 | | | | | | °C | |

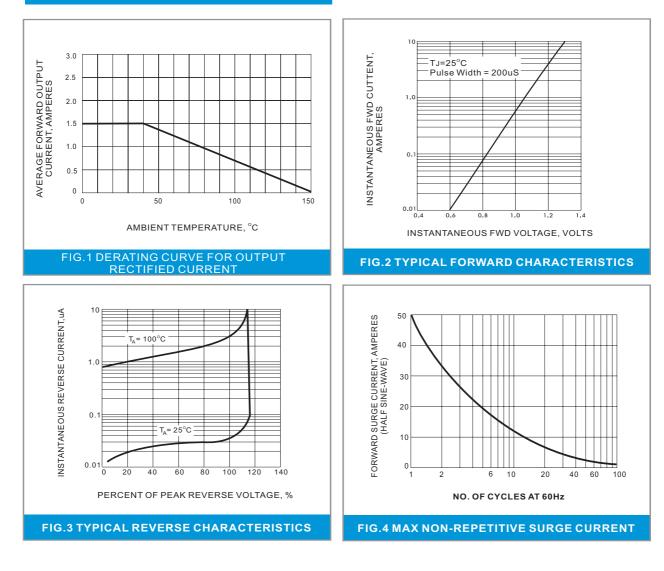
NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 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







Part No_packing code_Version

DI150_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) | 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 | | | | |





Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Panjit: DI1510_T0_00001