
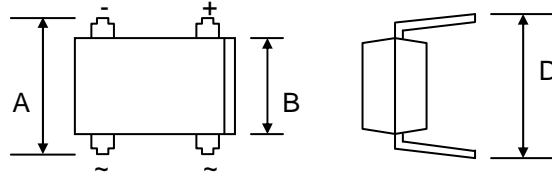


1.5A GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- Designed for Surface Mount Application
- Ideal for Printed Circuit Boards
-  Recognized File # E157705



Mechanical Data

- Case: DIL, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Weight: 0.38 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**

| DIL | | |
|----------------------|------|------|
| Dim | Min | Max |
| A | 7.24 | 8.00 |
| B | 6.10 | 6.50 |
| C | 8.12 | 8.80 |
| D | 7.60 | 8.90 |
| E | 2.20 | 2.60 |
| G | 0.45 | 0.55 |
| H | 3.80 | 4.90 |
| I | 5.00 | 5.20 |
| All Dimensions in mm | | |

Maximum Ratings and Electrical Characteristics @ $T_A=25^\circ\text{C}$ unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

| Characteristic | Symbol | DF150 | DF151 | DF152 | DF154 | DF156 | DF158 | DF1510 | Unit |
|---|--------------|------------|-------|-------|-------|-------|-------|--------|---------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | | | | | | | | |
| Working Peak Reverse Voltage | V_{RWM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| DC Blocking Voltage | V_R | | | | | | | | |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Average Rectified Output Current @ $T_A = 40^\circ\text{C}$ | I_O | 1.5 | | | | | | | A |
| Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method) | I_{FSM} | 50 | | | | | | | A |
| Forward Voltage per element @ $I_F = 1.5\text{A}$ | V_{FM} | 1.1 | | | | | | | V |
| Peak Reverse Current @ $T_A = 25^\circ\text{C}$ At Rated DC Blocking Voltage @ $T_A = 125^\circ\text{C}$ | I_{RM} | 5.0 500 | | | | | | | μA |
| Typical Junction Capacitance per element (Note 1) | C_j | 25 | | | | | | | pF |

Typical Thermal Resistance per leg (Note 2) R