



DUAL-IN-LINE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 1.5 Amperes



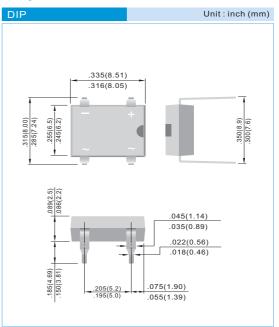
Recongnized File #E111753

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 comply with EU RoHS 2011/65/EU directives
- 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
- Mounting Position: Any
- 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%

							1		
PARAMETER	SYMBOL	DI150	DI151	DI152	DI154	DI156	DI158	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							А
Peak Forward Surge Current : 8.3ms single half sinewave superimposed on rated load (JEDEC method)	I _{FSM}	50							А
l ² t Rating for fusing (t<8.35ms)	l²t	10							A²t
Maximum Forward Voltage Drop per Bridge Element at 1.0A	V _F	1.1							V
Maximum DC Reverse Current T _J =25 °C at Rated DC Blocking VoltageT _J =125 °C	I _R	5.0 500							uA
Typical Junction capacitance (Note 1)	C¹	25							pF
Typical thermal resistance per leg ((Note 2)	R _{eja} R _{ejl}	40 15							°C / W
Operating and Storage Temperature Range	T _J	-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

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RATING AND CHARACTERISTIC CURVES

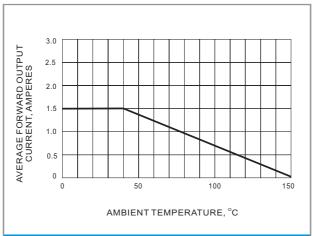


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

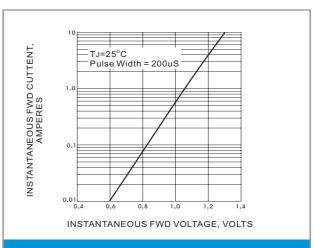
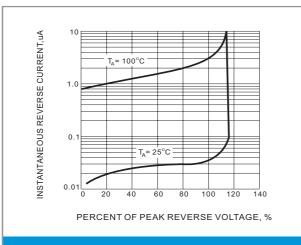
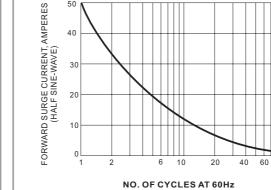


FIG.2 TYPICAL FORWARD CHARACTERISTICS





100

FIG.3 TYPICAL REVERSE CHARACTERISTICS FIG.4 MAX NON-REPETITIVE SURGE CURRENT

50

40

30

20

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Part No_packing code_Version

DI150_T0_00001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF

Tape and Reel (Left Oriented)

(TRL)

FORMING

Packing Code XX **Version Code** 2nd Code HF or RoHS 1st Code 1st Code 2nd~5th Code Packing type Packing size code Tape and Ammunition Box N/A 0 HF 0 serial number (T/B) Tape and Reel 7" R 1 **RoHS** 1 serial number (T/R) **Bulk Packing** В 13" 2 (B/P) **Tube Packing** Т 26mm X (T/P) Tape and Reel (Right Oriented) 52mm Υ S (TRR)

PANASERT T/B CATHODE UP

(PBCU)

PANASERT T/B CATHODE DOWN

(PBCD)

U

D

Packing size code means 13"

Packing type means T/R

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