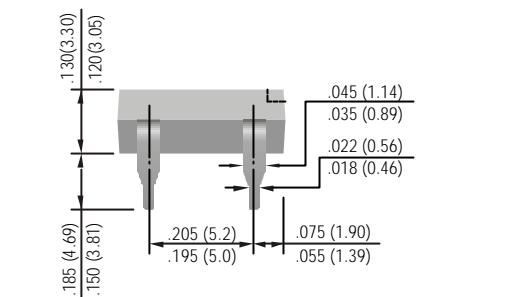
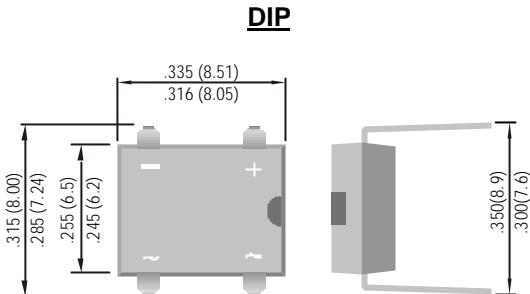


DI100/150 THRU DI1010/1510
DUAL-IN-LINE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER
VOLTAGE - 50 to 1000 Volts CURRENT - 1.0-1.5 Amperes

 Recognized File #E111753

FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating— 30~50 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228



MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product

Terminals: Lead solderable per MIL-STD-202, Method 208

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%.

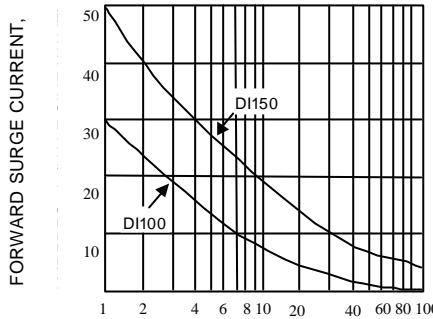
	DI100 DI150	DI101 DI151	DI102 DI152	DI104 DI154	DI106 DI156	DI108 DI158	DI1010 DI1510	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Bridge input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Current $T_A=40^\circ\text{C}$	DI100 DI150				1.0			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	DI100 DI150				30.0			A
I^2t Rating for fusing ($t < 8.35$ ms)					10.0			A^2t
Maximum Forward Voltage Drop per Bridge Element at 1.0A					1.1			V
Maximum Reverse Current at Rated $T_J = 25^\circ\text{C}$					5.0			μA
DC Blocking Voltage per element $T_J=125^\circ\text{C}$					0.5			mA
Typical Junction capacitance per leg (Note 1) C_J					25.0			pF
Typical Thermal resistance per leg (Note 2) $R_{\theta JA}$					40.0			$^\circ\text{C}/\text{W}$
Typical Thermal resistance per leg (Note 2) $R_{\theta JL}$					15.0			
Operating Temperature Range T_J					-55 to +125			$^\circ\text{C}$
Storage Temperature Range T_A					-55 to +150			$^\circ\text{C}$

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 0.5×0.5 " (13 x 13mm) copper pads

RATING AND CHARACTERISTIC CURVES

DI100/150 THRU DI1010/1510



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

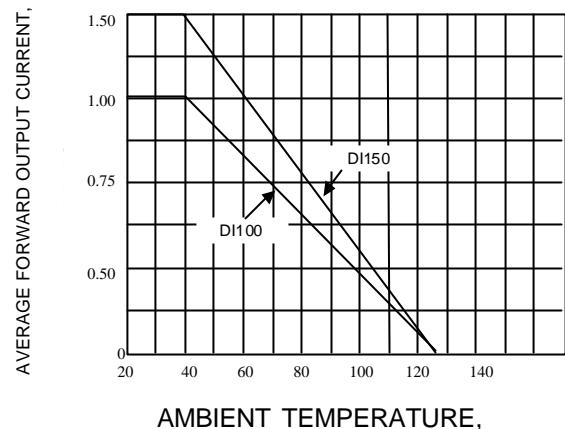
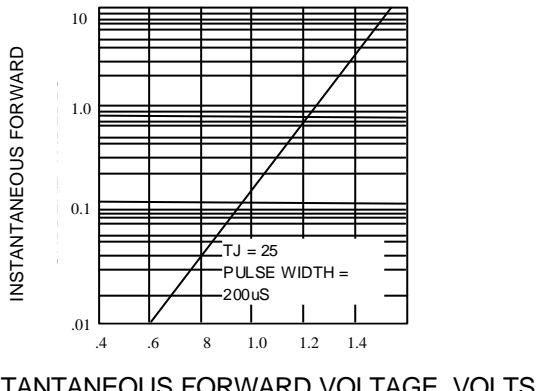


Fig. 1-MAXIMUM NON-REPETITIVE SURGE CURRENT

Fig. 2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 3-TYPICAL FORWARD CHARACTERISTICS

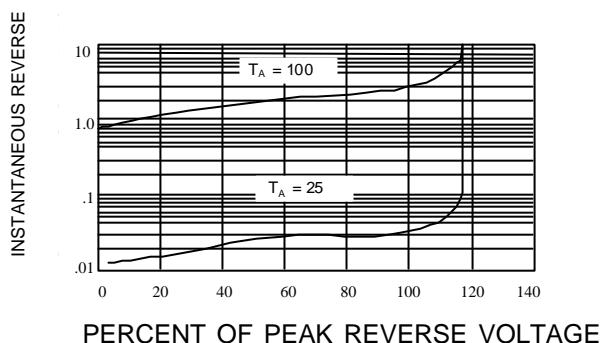


Fig. 4-TYPICAL REVERSE CHARACTERISTICS