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

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

.315(8.00) .285(7.24) ÷ + .255(8.5) .350(8.9) С .245(8.2) 300(7.6) 57 .098(2.5) .335(8.51) 318(8.05) .086(2.2) .080(2.03) .050(1.27) .045(1.14) .185(4.69) .035(0.89) .022(0.56) .150(3.81) .018(0.46) .075(1.90) 205(5.2) .195(5.0) .055(1.39)

DIP

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, Resistive or inductive load.

For capacitive load, derate current by 20%.

		DI100	DI101	DI102	DI104	DI106	DI108	DI1010	UNITS
		DI150	DI151	DI152	DI154	DI156	DI158	DI1510	
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 DI	100				1.0				Α
T _A =40 DI	150	1.5							
	100	30.0						Α	
half sine-wave superimposed on rated load DI	150				50.0				
I ² t Rating for fusing (t < 8.35 ms)					10.0				A ² t
Maximum Forward Voltage Drop per Bridge					1.1				V
Element at 1.0A									
Maximum Reverse Current at Rated T _J = 25					5.0				А
DC Blocking Voltage per element T _J =125					0.5				mA
Typical Junction capacitance per leg (Note 1) CJ					25.0				РF
Typical Thermal resistance per leg (Note 2) R JA		40.0							/W
Typical Thermal resistance per leg (Note 2) R JL		15.0							
Operating Temperature Range T _J		-55 to +125							
Storage Temperature Range T _A		-55 to +150							

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
 - $0.5{\times}0.5"(13{\times}13mm)$ copper pads

RATING AND CHARACTERISTIC CURVES

DI100/150 THRU DI1010/1510

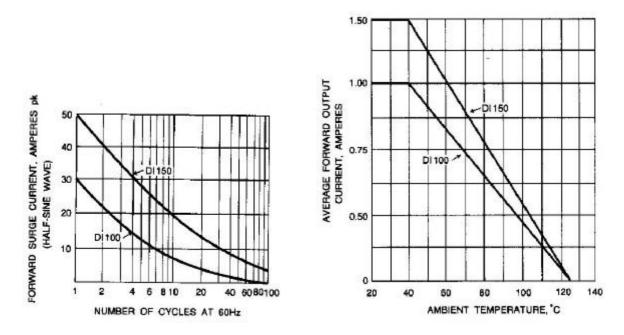


Fig. 1-MAXIMUM NON-REPETITIVE SURGE CURRENT Fig. 2-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

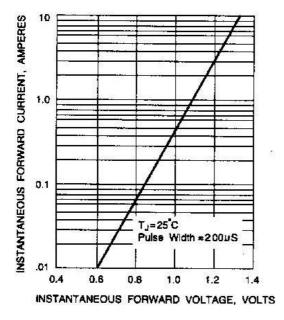


Fig. 3-TYPICAL FORWARD CHARACTERISTICS

