

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

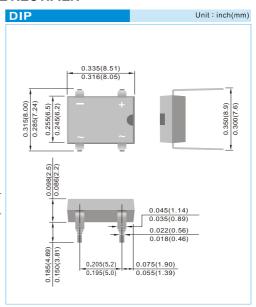
VOLTAGE 50 to 1000 Volt CURRENT 1 Ampere Recongnized File #E111753

FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating-- 30 amperes peak
- Ideal for printed circuit board
- Lead free in compliance with EU RoHS 2011/65/EU directive
- 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
- Weight: 0.012 ounces, 0.33 grams



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	DI100	DI101	DI102	DI104	DI106	DI108	DI1010	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Current	lav	1					А		
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	IFSM	30					А		
I ² t Rating for fusing (t<8.35ms)	I²t	3.735					A²t		
Maximum Forward Voltage Drop per Bridge Element at 1A	VF	1.1					V		
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{J=}25^{\circ}C$ $T_{J=}125^{\circ}C$	IR	5 500					uA		
Typical Junction Capacitance (Note 1)	Cı	25					pF		
Typical Thermal Resistance Per Leg (Note 2)	Røja Røjl	40 15					°C / W		
Operating Junstion and Storage Temperature Range	TJ,TSTG	-55 to + 150					°C		

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4 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

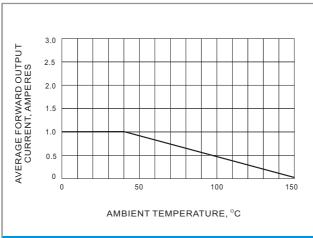


FIG.1 DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

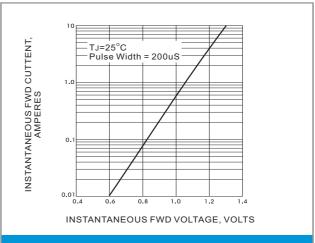
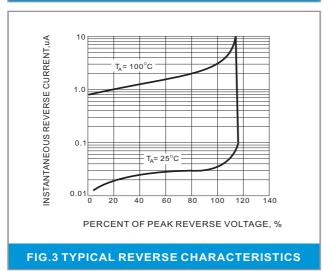


FIG.2 TYPICAL FORWARD CHARACTERISTICS



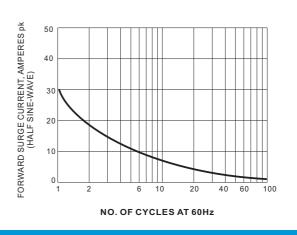


FIG.4 MAX NON-REPETITIVE SURGE CURRENT



Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
DI100	DIP	50pcs / Tube	DI100	
DI101	DIP	50pcs / Tube	DI101	
DI102	DIP	50pcs / Tube	DI102	
DI104	DIP	50pcs / Tube	DI104	
DI106	DIP	50pcs / Tube	DI106	
DI108	DIP	50pcs / Tube	DI108	
DI1010	DIP	50pcs / Tube	DI1010	



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