Single Phase Bridge Rectifier

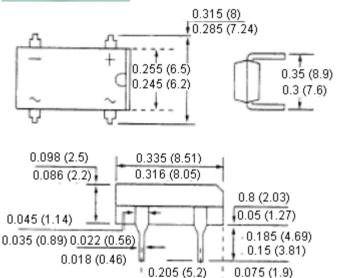
DI Series





Features:

- 1 A 1.5 A dual in line
- 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

moulded plastic technique results in

inexpensive product

Terminals : Lead solderable per MIL-STD-202,

Method 208

Polarity : Polarity symbols moulded or marking

on body

Mounting Position : Any

Weight : 0.02 oz, 0.4 g

Dimensions : Inches (Millimetres)

0.195 (5)

Maximum Ratings and Electrical Characteristics:

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

0.055 (1.39)

	DI152	DI106	DI1510	Unit	
Maximum Recurrent Peak Reverse Voltage	200	600	1,000	1,000	
Maximum RMS Bridge Input Voltage	140	140 420 700			
Maximum DC Blocking Voltage	200	600	1,000		
I ² t Rating for Fusing (t <8.35 ms)		10		A ² t	
Maximum Forward Voltage Drop Per Bridge Element at 1 A		1.1			
Maximum Reverse Current at Rated T _J = 25°C		5		μA	
DC Blocking Voltage Per Element T _J = 125°C		0.5		mA	
Typical Junction Capacitance Per leg (Note 1) C _J		25		pF	
Typical Thermal Resistance Per leg (Note 2) RθJA	40		°C / W		
Typical Thermal Resistance Per leg (Note 2) RθJL		15			
Operating Temperature Range T _J		55 to +125			
Storage Temperature Range T _A	-55 to +150		°C		

Notes: 1. Measured at 1 MHz and applied reverse voltage of 4 V

2. Thermal resistance from junction to ambient and from junction to lead mounted on PCB with 0.5×0.5 inches (13 × 13 mm) copper pads





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Rating and Characteristic Curves

Figure 2 - Derating Curve For Output Rectified Current

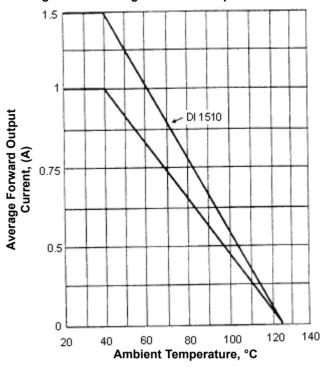


Figure 3 - Typical Forward Characteristics

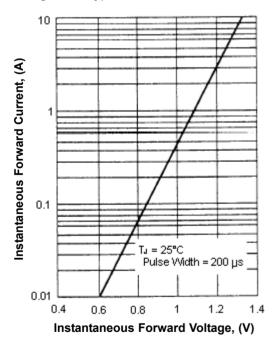
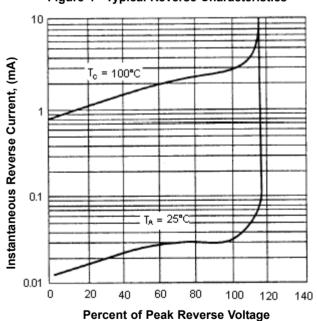


Figure 4 - Typical Reverse Characteristics



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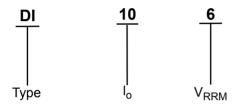




Specification Table

V _{RRM} (V)	Maximum ac Input Voltage	I _O at 40°C (A)	I _{fsm} (A)	Order Multiple	Part Number
600	420	1	30	1	DI106
200	140	1.5	50	5	DI152
1,000	700	1.0	30		DI1510

Part Number Explanation:



Type : DI

I_o: 10 = 1 A and 15 = 1.5 A

V_{RRM} : 2 = 200 V, 6 = 600 V and 10 = 1,000 V

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