

DIOTEC ELECTRONICS CORP.

18020 Hobart Blvd., Unit B Gardena, CA 90248 U.S.A

Tel.: (310) 767-1052 Fax: (310) 767-7958

1 AMP SILICON BRIDGE RECTIFIERS

FEATURES

- PRV Ratings from 50 to 1000 Volts
- Surge overload rating to 50 Amps peak
- Reliable low cost molded plastic construction
- Ideal for printed circuit board applications

UL RECOGNIZED - FILE #E141956

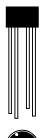
MECHANICAL DATA

- Case: Molded plastic, U/L Flammability Rating 94V-0
- Terminals: Round silver plated pins
- Soldering: Per MIL-STD 202 Method 208 guaranteed
- Polarity: Marked on case
- Mounting Position: Any
- Weight: 0.05 Ounces (1.3 Grams)

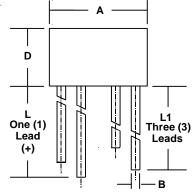
MECHANICAL SPECIFICATION

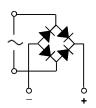
ACTUAL SIZE OF WB PACKAGE

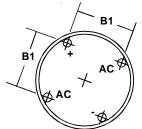












SYM	MILLIN	IETERS	INCHES				
	MIN	MAX	MIN	MAX			
Α	8.6	8.89	0.340	0.350			
В	0.76	0.81	0.030	0.032			
B1	4.6	5.6	0.180	0.220			
D	5.1	5.6	0.200	0.220			
L	30.5	n/a	1.20	n/a			
L1	25.4	n/a	1.0	n/a			

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.

or capacitive loads, derate current by 20%.									
PARAMETER (TEST CONDITIONS)		RATINGS							UNITS
Series Number		WB 100	WB 101	WB 102	WB 104	WB 106	WB 108	WB 110	
Maximum DC Blocking Voltage	VRM	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	
Maximum Peak Recurrent Reverse Voltage	VRRM	50	100	200	400	600	800	1000	
Average Forward Rectified Current @ TA = 50° C	lo	1						AMPS	
Peak Forward Surge Current. Single 60Hz Half-Sine Wave Superimposed on Rated Load (JEDEC Method). TJ = 125°C	IFSM	50							
Maximum Forward Voltage (Per Diode) at 1 Amp DC	VFM	1.0						VOLTS	
Maximum Average DC Reverse Current At Rated DC Blocking Voltage @ Ta = 25° C	IRM	10 (Typical < 0.1μA)						μ Α	
Typical Thermal Resistance Junction to Ambient (Note 1) Junction to Lead (Note 1)	RθJA RθJL	40 15						°C/W	
Operating and Storage Temperature Range		-40 to +125 (Junction), -40 to +150 (Storage)						°C	

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RATING & CHARACTERISTIC CURVES FOR SERIES WB100 - WB110

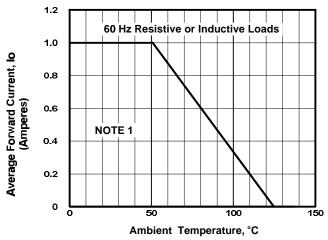


FIGURE 1. FORWARD CURRENT DERATING CURVE

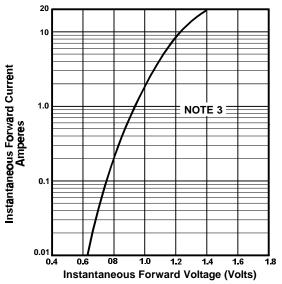


FIGURE 3. TYPICAL FORWARD CHARACTERISTIC PER DIODE

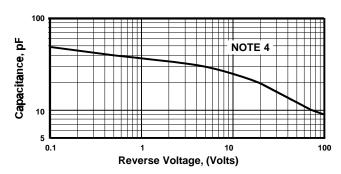


FIGURE 5. TYPICAL JUNCTION CAPACITANCE PER DIODE

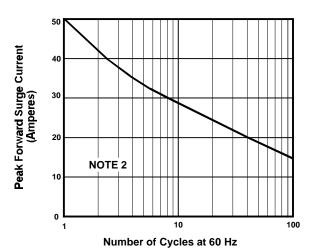


FIGURE 2. MAXIMUM NON-REPETITIVE SURGE CURRENT

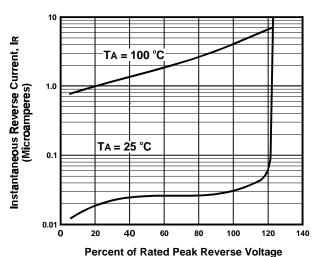


FIGURE 4. TYPICAL REVERSE CHARACTERISTICS

NOTES

- (1) Bridge Mounted on PC Board With 0.2" Sq. (5.5mm Sq.) Cooper Pads and Bridge Lead Length of 0.375" (9.5mm)
- (2) $T_J = 125^{\circ}C$
- (3) T_J = 25°C; Pulse Width = 300 μ Sec, 1% Duty Cycle
- (4) $T_J = 25^{\circ} C$; f = 1 MHz; $V_{SIG} = 50 mV_{P-P}$

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