

## **W005** THRU **W10**

Single Phase 1.5 AMPS. Silicon Bridge Rectifiers



Voltage Range 50 to 1000 Volts Current 1.5 Amperes

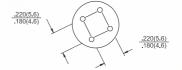
#### **Features**

- UL Recognized File # E-96005
- Surge overload ratings to 40 amperes
- Ideal for printed circuit board
- Reliable low cost construction technique results in inexpensive product
- High temperature soldering guaranteed: 260°C / 10 seconds / 0.375" ( 9.5mm ) lead length at 5 lbs., (2.3 kg) tension

### Mechanical Data

Case: Molded plastic WWW DIESE. Lead: solder plated Polarity: As marked Weight: 1.07 grams

# **RB-15** .358(9.1) 339(8.6) DIA .157(4.0) 1.2(30.5) MIN POS.LEAD



Dimensions in inches and (millimeters) WW.DZSC.GO

### **Maximum Ratings and Electrical Characteristics**

Rating 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%

Type Number	Symbol	W005	W01	W02	W04	W06	W08	W10	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> = 50°C	I <sub>(AV)</sub>	1.5							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>				40			18	Α
Maximum Instantaneous Forward Voltage  @ 1.5A	V <sub>F</sub>				1.0			WW	V
Maximum DC Reverse Current @ $T_A$ =25 $^{\circ}$ C at Rated DC Blocking Voltage @ $T_A$ =100 $^{\circ}$ C	I <sub>R</sub>	W.		-\\\	10 500				uA uA
Typical Thermal Resistance (Note)	$R\theta_{JA}$ $R\theta_{JL}$	COM			36 13				<b>C</b> /W
Operating Temperature Range	TJ			-55	5 to +1	25			C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							C

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. With 0.4 x 0.4" (10 x 10mm) Copper Pads.





### RATINGS AND CHARACTERISTIC CURVES (W005 THRU W10)

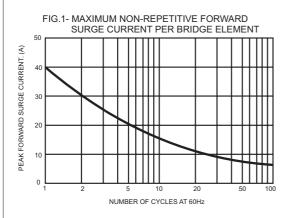


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

1.6

1.4

1.4

1.0

0.8

0.8

0.6

0.4

0.0

AMBIENT TEMPERATURE. (°C)

FIG.3- TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS PER BRIDGE ELEMENT

