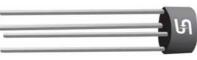


W005 - W10



Single Phase 1.5 AMPS. Silicon Bridge Rectifiers

<u>RB-15</u>

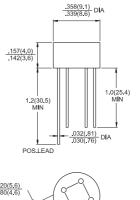


Features

- ♦ UL Recognized File # E-96005
- ♦ Surge overload ratings to 40 amperes peak
- ♦ 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
- ♦ Lead: solder plated
- Polarity: As marked
- ♦ Weight: 1.07 grams





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

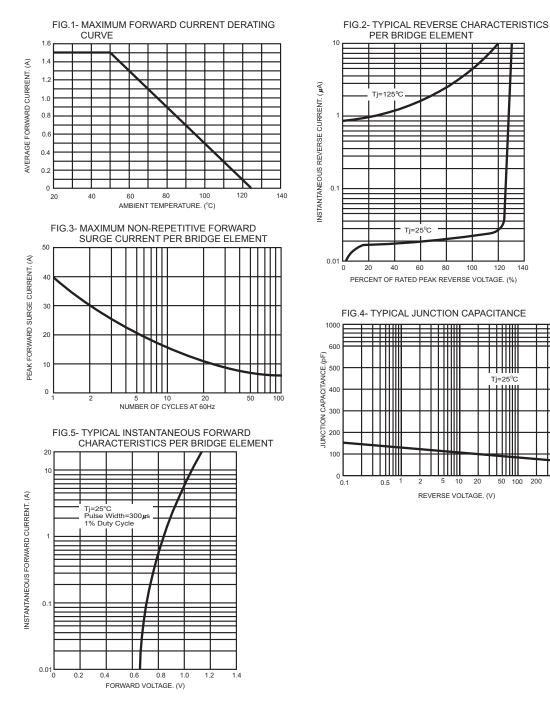
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	Symbol	W005	W01	W02	W04	W06	W08	W10	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	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 _A = 50 °C	I _(AV)	1.5							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	40							A
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.0							V
Maximum DC Reverse Current @ $T_A=25$ °C at Rated DC Blocking Voltage @ $T_A=125$ °C	I _R	10 500							uA uA
Typical Thermal Resistance (Note)	R _{θJA} R _{θJL}	36 13							°C/W
Operating Temperature Range	TJ	-55 to +125							°C
Storage Temperature Range	T _{STG}	-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" (10mm x 10mm) Copper Pads.



RATINGS AND CHARACTERISTIC CURVES (W005 THRU W10)



500 800

Mouser Electronics

Authorized Distributor

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Taiwan Semiconductor:

<u>W08</u> <u>W02</u> <u>W06</u> <u>W10</u> <u>W01</u> <u>W04</u> <u>W005</u> <u>W01M</u> <u>W02M</u> <u>W04M</u> <u>W06M</u> <u>W08M</u> <u>W10M</u>