

1W005 - 1W10

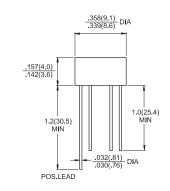


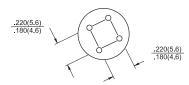
Single Phase 1.0 AMP. Silicon Bridge Rectifiers RB-15



Features

- ♦ UL Recognized File # E-96005
- Surge overload ratings to 30 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: Pure tin plated, Lead free.

→ 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	1W005	1W01	1W02	1W04	1W06	1W08	1W10	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 $@T_A = 50 ^{\circ}C$	I _(AV)	1.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	_	30							Α
Maximum Instantaneous Forward Voltage @ 1.0A	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)	$R_{ hetaJA}$ $R_{ hetaJL}$	36 13							°C/W
Operating Temperature Range	T_J	-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 0.2" x 0.2" (5mm x 5mm) Copper Pads.

Version: A06



RATINGS AND CHARACTERISTIC CURVES (1W005 THRU 1W10)

