- TDD- DAYA SEMICONDUCTOR

2W005 - 2W10

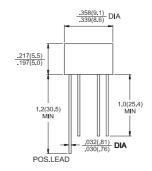
Single Phase 2.0 AMPS. Silicon Bridge Rectifiers

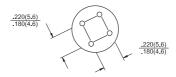




Features

- ♦ UL Recognized File # E-96005
- ♦ Surge overload ratings to 50 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 markedWeight: 1.10 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	2W 005	2W 01	2W 02	2W 04	2W 06	2W 08	2W 10	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)	2.0							Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							Α
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	1.1							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)	$R_{ hetaJA}$ $R_{ hetaJL}$	40 15							°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 at 0.375" (9.5mm) Lead Length for P.C.B. Mounting.





RATINGS AND CHARACTERISTIC CURVES (2W005 THRU 2W10)

FIG.1- MAXIMUM FORWARD CURRENT DERATING **CURVE** 2.0 1.5

AVERAGE FORWARD CURRENT. (A) 1.0 0.5 0 40 60 80 100 120 140 20 AMBIENT TEMPERATURE. (°C) FIG.3- MAXIMUM NON-REPETITIVE FORWARD

