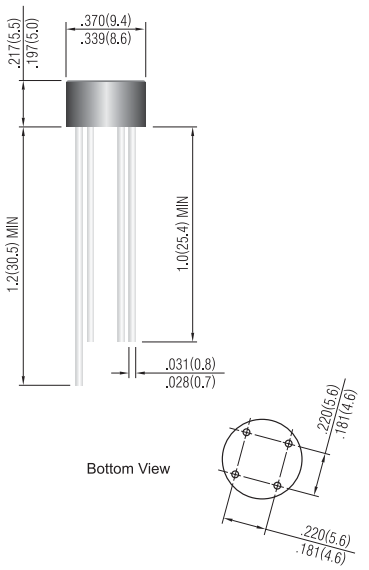
PANJIT SEMI CONDUCTOR

2W005~2W10

SILICON BRIDGE RECTIFIERS

VOLTAGE 50 to 1000 Volts **CURRENT** 2.0 Amperes

AM / RB-10 / WOB Unit: inch (mm)



FEATURES

- Plastic material used carries Underwriters Laboratory recognition.
- High surge dielectric strength.
- Typical I_R LESS Than 1uA.
- Exceeds environmental standards of MIL-STD-19500
- Ideal for printed circuit board.
- High temperature soldering guaranteed: 265°C/10 seconds/ .375" (9.5 mm) lead length/5 lbs. (2.3kg) tension
- In compliance with EU RoHS 2002/95/EC directives

MECHANICALDATA

Case: Reliable low cost construction utilizing molded plastic technique

Terminals: Leads solderable per MIL-STE-750, Method 2026

Mounting Position: Any

Weight: 0.04 ounces, 1.1 grams.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	2W005	2W01	2W02	2W04	2W06	2W08	2W10	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input 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 Output Current .375" (9.5mm) Lead Length at T_A=25°C	I_{AV}	2.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50.0							A
I^2t Rating for fusing (t<8.3ms)	I^2t	15.0							A^2s
Maximum Forward Voltage Drop per Element at 1.0A	V_F	1.0							V
Maximum DC Reverse Current T_A=25 °C at Rated DC Blocking Voltage T_A=100 °C	I_R	10.0 1000							μA
Typical Junction capacitance per bridge element (Note 1)	C_J	24							pF
Operating Junction Temperature Range	T_J	-55 to + 125							°C
Storage Temperature Range	T_{STG}	-55 to + 150							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.

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RATING AND CHARACTERISTIC CURVES 2W005 THRU 2W10

FIG. 1-DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

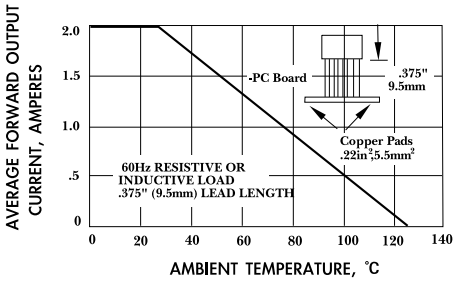

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

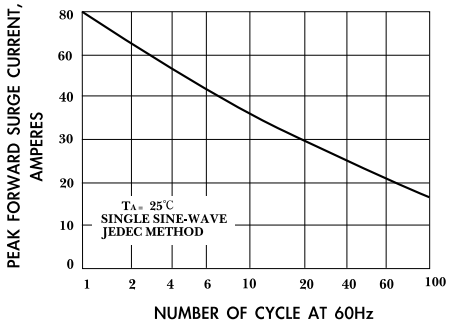

FIG. 3-TYPICAL REVERSE CHARACTERISTICS

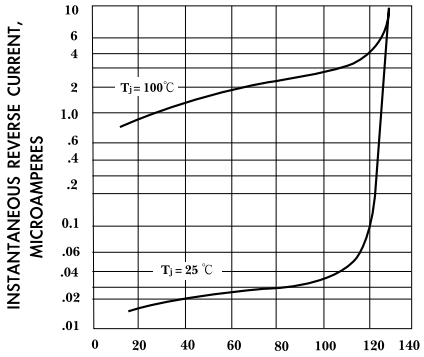

FIG. 4-TYPICAL INSTANTANEOUS RORWARD CHARACTERISTICS

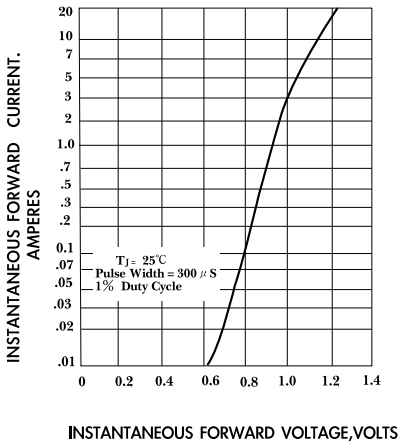

FIG. 5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT