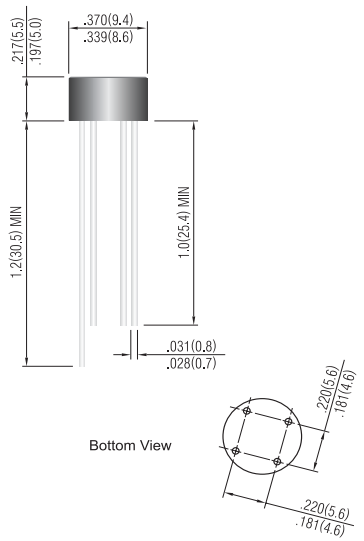
PANJIT SEMI CONDUCTOR

RB200 SERIES

2.0 A 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 case 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
- Component are in compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: Reliable low cost construction utilizing molded plastic technique
- Terminals: Leads solderable per MIL-STD-750, Method 2026
- Mounting Position: Any
- Weight:1.4 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	RB200	RB201	RB202	RB204	RB206	RB208	RB2010	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	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	50							A
I^2t Rating for fusing (t<8.35ms)	I^2t	15							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 1							µA
Typical Junction capacitance per bridge element (Note 1)	C_J	30							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.

RB200 SERIES

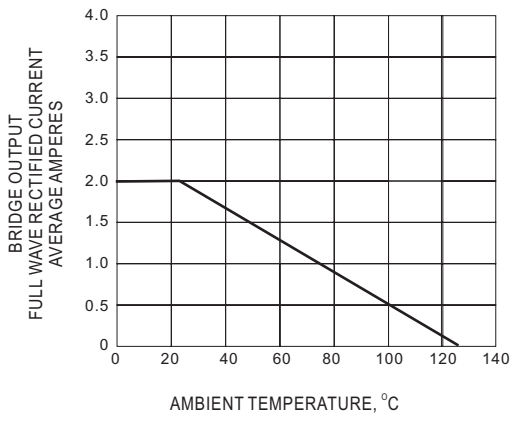


Fig.1 DERATING CURVE OUTPUT RECTIFIED CURRENT

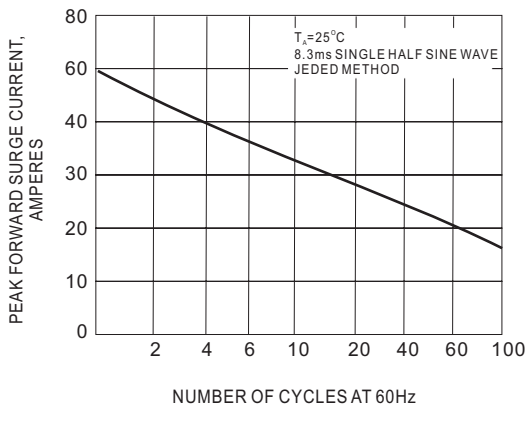


Fig.2MAXIMUM NON-REPETITIVE PEAK FORWARD CURRENT

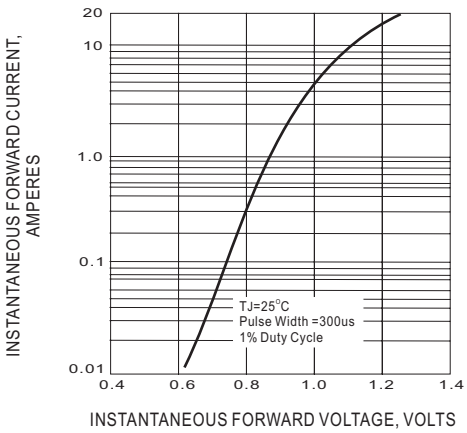


Fig.3 TYPICAL FORWARD CHARACTERISTIC

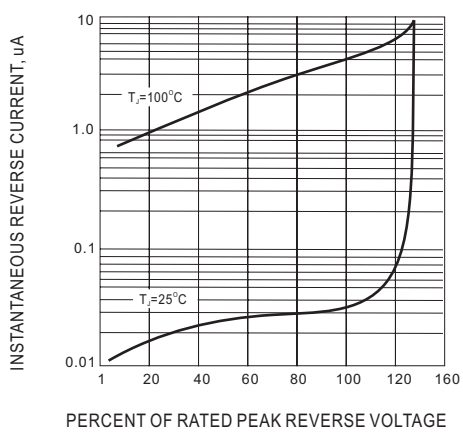


Fig.4 TYPICAL REVERSE CHARACTERISTICS

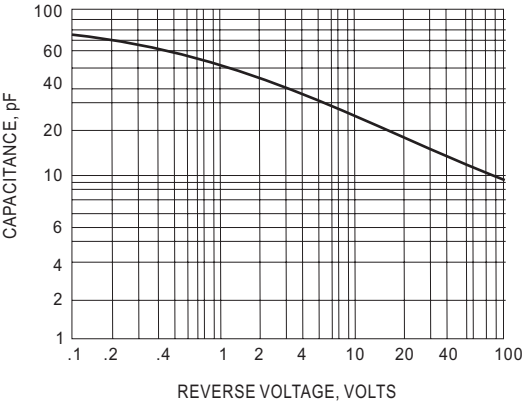


Fig.5 TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT