



# RB200 SERIES

## 2.0 A SILICON BRIDGE RECTIFIERS

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

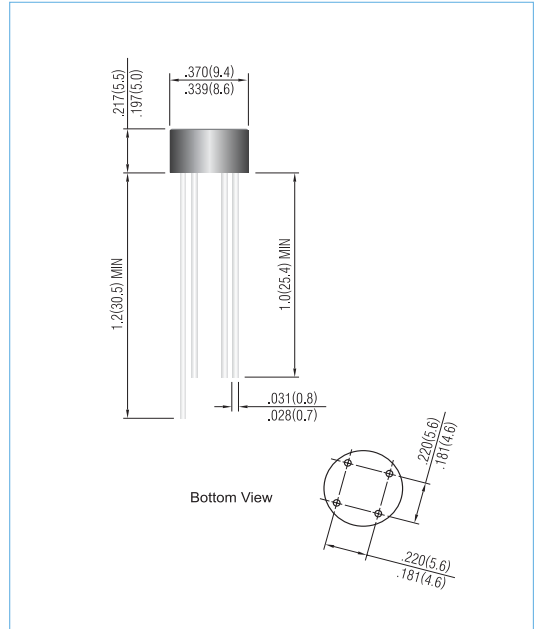
AM / RB-10 / WOB Unit: inch ( mm )

### FEATURES

- Plastic material used carries Underwriters Laboratory recognition.
- High case dielectric strength.
- Typical  $I_r$  LESS Than 1 $\mu$ A.
- 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%.

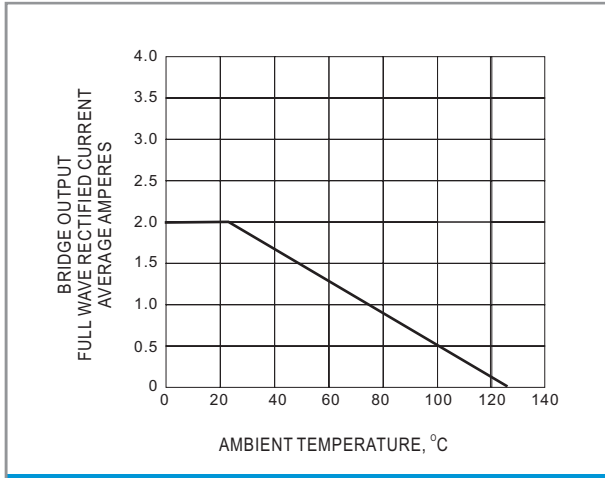
PARAMETER	SYMBOL	RB200	RB201	RB202	RB204	RB206	RB208	RB2010	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current .375" (9.5mm) Lead Length at $T_A=25^\circ C$	$I_{F(AV)}$	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 $T_A=25^\circ C$ at Rated DC Blocking Voltage $T_A=100^\circ C$	$I_R$	10 1							$\mu A$
Typical Junction capacitance per bridge element (Note 1)	$C_J$	30							pF
Operating Junction Temperature Range	$T_J$	-55 to + 125							$^\circ C$
Storage Temperature Range	$T_{STG}$	-55 to + 150							$^\circ C$

NOTES:

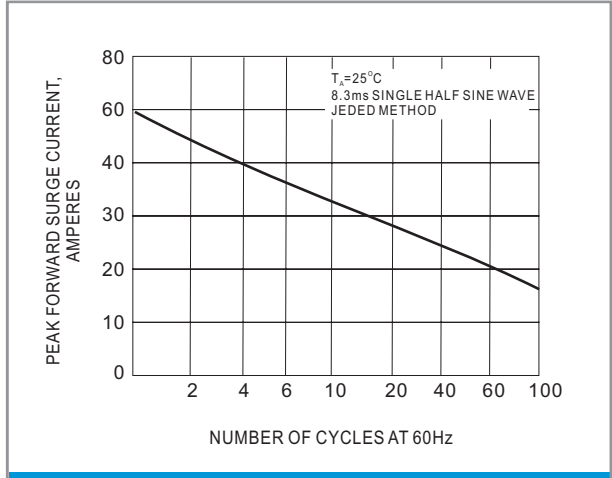
1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts.



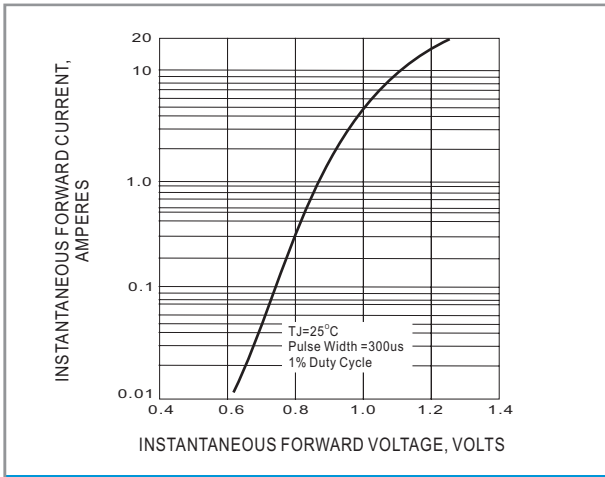
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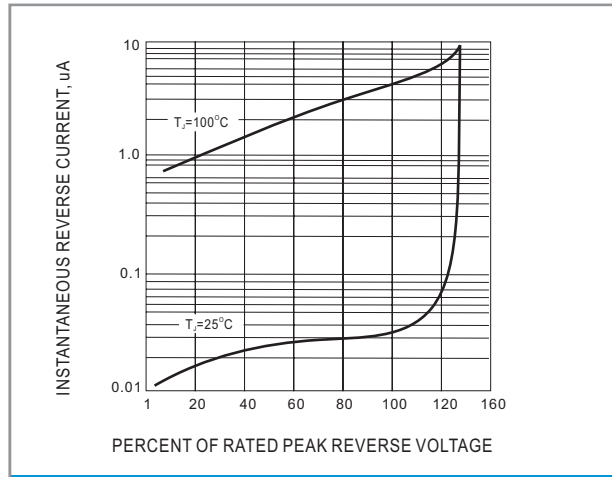
**Fig.1 DERATING CURVE OUTPUT RECTIFIED CURRENT**



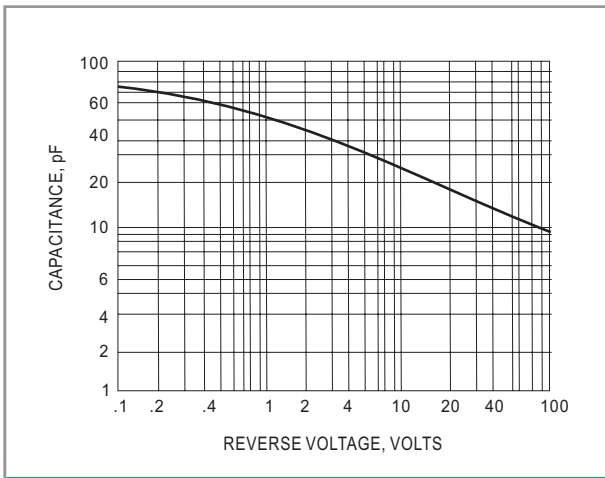
**Fig.2 MAXIMUM NON-REPETITIVE PEAK FORWARD CURRENT**



**Fig.3 TYPICAL FORWARD CHARACTERISTIC**



**Fig.4 TYPICAL REVERSE CHARACTERISTICS**



**Fig.5 TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT**