

Microsemi Corp.

The diode experts

SANTA ANA, CA

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(714) 979-8220

SCOTTSDALE, AZ

**MB200 thru MB206
MB207 thru MB213**

FEATURES

- Microminiature package.
- Voidless hermetically sealed glass package.
- Triple layer passivation.
- Metallurgically bonded.
- Ultra fast recovery.
- PIV to 215 volts.
- Meet or exceed requirements of MIL-S-19500.

MAXIMUM RATINGS

Operating Temperature: -65°C to $+175^{\circ}\text{C}$.

Storage Temperature: -65°C to $+200^{\circ}\text{C}$.

*Power Dissipation: 2 Watts @ 25°C .

*This rating applies when diodes are mounted on turret terminals
(.060" diameter x .375" minimum height) on .5" centers in free air.
With fan cooling of at least 250 linear feet per minute air velocity this
rating is 3.0 watts at 25°C .

ELECTRICAL CHARACTERISTICS

TYPE	PEAK INVERSE VOLTAGE (MIN.) PIV	BREAKDOWN VOLTAGE (MIN.) B_V @ 100 μA	AVERAGE RECTIFIED CURRENT I_0	FORWARD VOLTAGE DROP (MAX.) V_F	REVERSE CURRENT (MAX.) I_R @ PIV		SURGE CURRENT (MAX.) (NOTE 1) I_F (surge)	JUNCTION CAPACITANCE (MAX.) C @ V		REVERSE RECOVERY TIME (MAX.) (NOTE 2)
	VOLTS	VOLTS	AMPS	VOLTS	μA		AMPS	pF		n sec
			$T_A 55^{\circ}\text{C}$		25°C	100°C		0V	-10V	
MB200	40	55	2.0	1.0V	.5	100	25	35	20	20
MB201	65	85	2.0	@	.5	100	25	35	20	20
MB202	90	110	2.0	1.667 Adc	.5	100	25	35	20	20
MB204	135	165	2.0	(250 msec pulse)	.5	100	25	35	20	20
MB206	185	215	2.0		1.5	200	25	35	20	20
MB207	40	55	2.0	1.0V	1.0	200	25	25	15	20
MB208	65	85	2.0	@	1.0	200	25	25	15	20
MB209	90	110	2.0	1.25 Adc	1.0	200	25	25	15	20
MB211	135	165	2.0	(250 msec pulse)	1.0	200	25	25	15	20
MB213	185	215	2.0		3.0	400	25	25	15	20

NOTE 1: Single cycle 8.3 msec surge

NOTE 2: $I_F = 1\text{A}$, $I_R = 1.0\text{A}$, recover to .5A

RECTIFIERS

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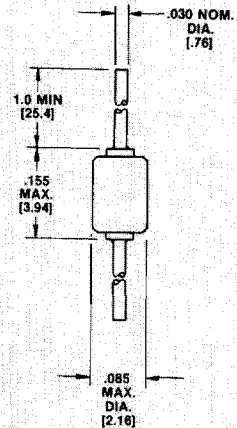


FIGURE 1
PACKAGE A

MECHANICAL CHARACTERISTICS

CASE: Hermetically sealed hard glass.

LEAD MATERIAL: Tinned copper.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.

MB200 thru MB206 **MB207 thru MB213**

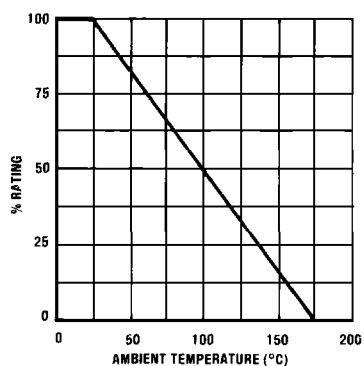


FIGURE 2
TEMPERATURE
DERATING CURVE

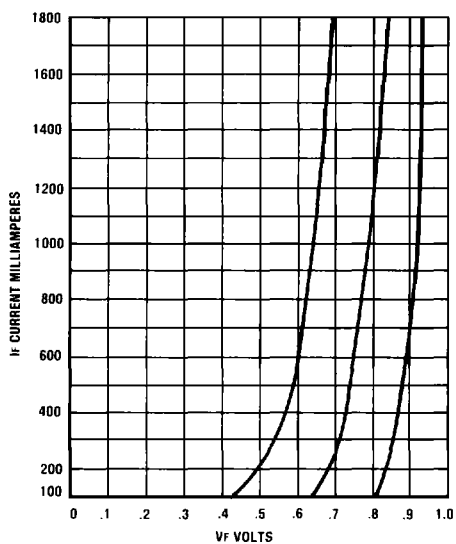


FIGURE 3
FORWARD CONDUCTANCE CURVE**

**Special band spread requirements can be supplied upon request.

Mouser Electronics

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