

MB84~MB820

SCHOTTKY BARRIER RECTIFIERS

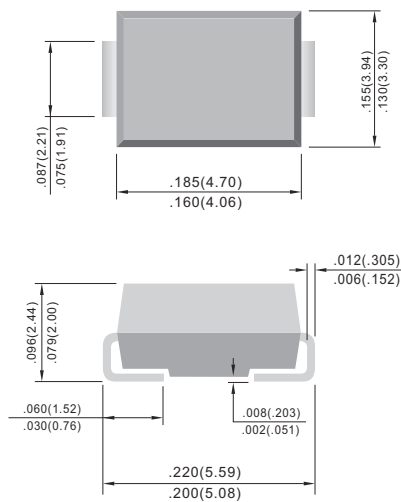
VOLTAGE 40 to 200 Volts CURRENT 8 Ampere



Lead-free Green

SMB/DO-214AA

Unit : inch(mm)



FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Low power loss, High efficiency
- High surge capacity
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: SMB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Standard packaging: 16mm tape (EIA-481)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	MB84	MB84A	MB85	MB86	MB88	MB89	MB810	MB815	MB820	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V_{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	40	45	50	60	80	90	100	150	200	V
Maximum Average Forward Current (See Figure 1)	$I_{F(AV)}$	8									A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	150									A
Maximum Forward Voltage at 8.0A	V_F	0.55		0.74		0.85		0.95			V
Maximum DC Reverse Current $T_J=25^{\circ}C$ at Rated DC Blocking Voltage $T_J=100^{\circ}C$	I_R						0.2				mA
							20				
Typical Thermal Resistance	$R_{\theta JC}$	5									$^{\circ}C / W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125				-55 to +175					$^{\circ}C$

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RATING AND CHARACTERISTIC CURVES

