

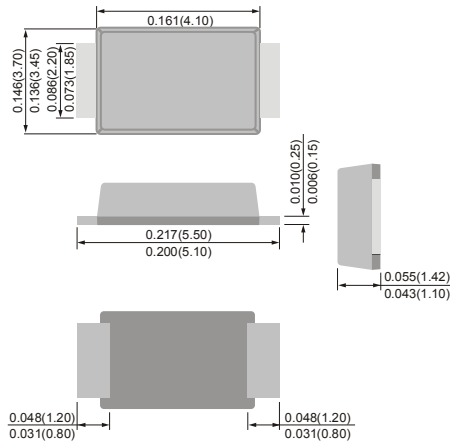
# MB24F~MB220F

**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER**  
**VOLTAGE 40 to 200 Volts CURRENT 2.0 Amperes**



SMBF

Unit : inch(mm)



## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS 2002/95/EC directives

## MECHANICAL DATA

- Case: JEDEC SMBFmolded plastic
- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Standard packaging: 12mm tape (EIA-481)

## MAXIMUM RATINGS

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

B24 MB24 MB25 MB26 MB28 MB29 MB210 MB215 MB220

PARAMETER	SYMBOL	MB24F	MB24AF	MB25F	MB26F	MB26F	MB29F	MB210F	MB2151F	MB220F	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)	$I_{F(AV)}$	2.0									A
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	$I_{FSM}$	50									A
Maximum Forward Voltage at 2.0A ( Note 1)	$V_F$	0.50	0.7		0.8			0.9		v	
Maximum DC Reverse Current $T_j=25^{\circ}C$ at Rated DC Blocking Voltage $T_j=100^{\circ}C$	$I_R$	0.2					20				mA
Typical Thermal Resistance ( Note 2)	$R_{\theta JL}$	12									$^{\circ}C / W$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-65 to +125					-65 to +150				$^{\circ}C$

NOTES:

1. Pulse Test with PW =300μsec, 1% Duty Cycle.
2. Mounted on P.C. Board with 8mm<sup>2</sup> (.013mm thick) copper pad areas.

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## RATING AND CHARACTERISTIC CURVES

