

MB14L~MB120L

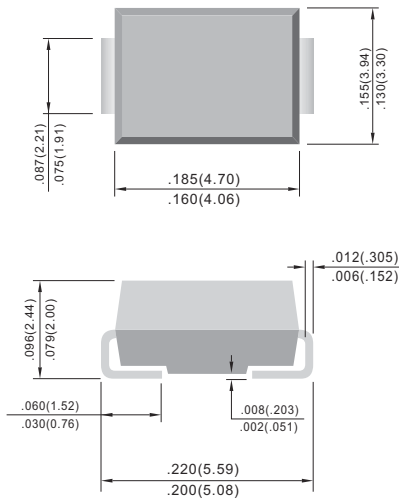
LOW VF SURFACE MOUNT SCHOTTKY RECTIFIER

VOLTAGE 40 to 200 Volts CURRENT 1.0 Amperes



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
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- High current capacity, low VF
- 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 SMB/DO-214AAmolded plastic
- Terminals:Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)

MAXIMUM RATINGS(T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	MB14L	MB15L	MB16L	MB18L	MB110L	MB115L	MB120L	LUNIT
Maximum repetitive peak reverse voltage	V _{RRM}	40	50	60	80	100	150	200	V
Maximum rms voltage	V _{RMS}	28	35	42	63	100	150	200	V
Maximum dc blocking voltage	V _R	40	50	60	80	100	150	200	V
Maximum average forward rectified current	I _{F(AV)}	1							A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	30							A
Maximum thermal resistance	R _{θJA} R _{θJL}	120 40							°C/W
Operating junction temperature range	T _J	-55 to + 150							°C
Storage temperature range	T _{STG}	-55 to + 150							°C

ELECTRICAL CHARACTERISTICS(T_A=25°C unless otherwise noted)

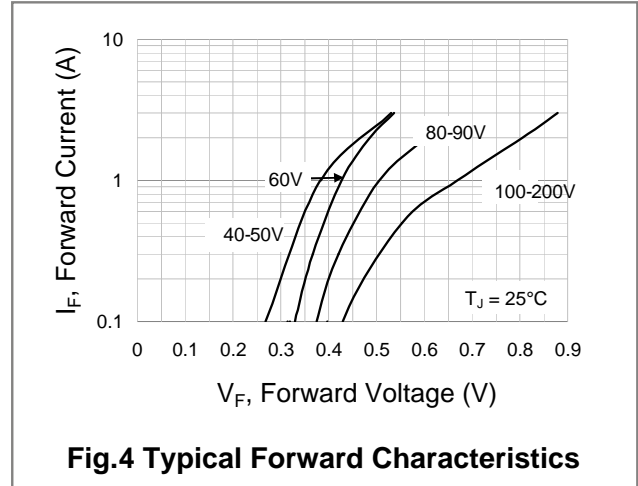
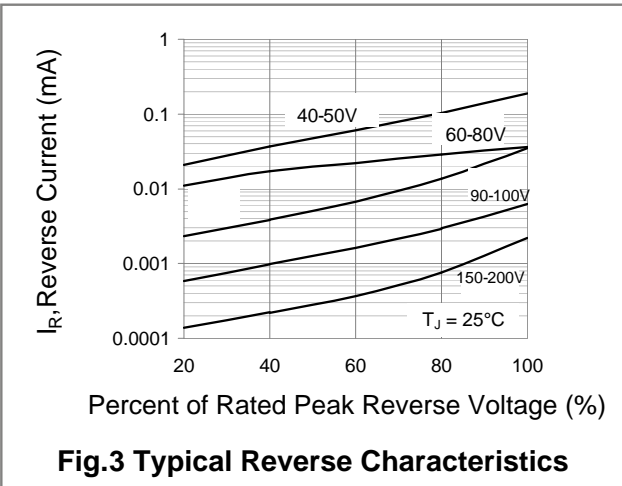
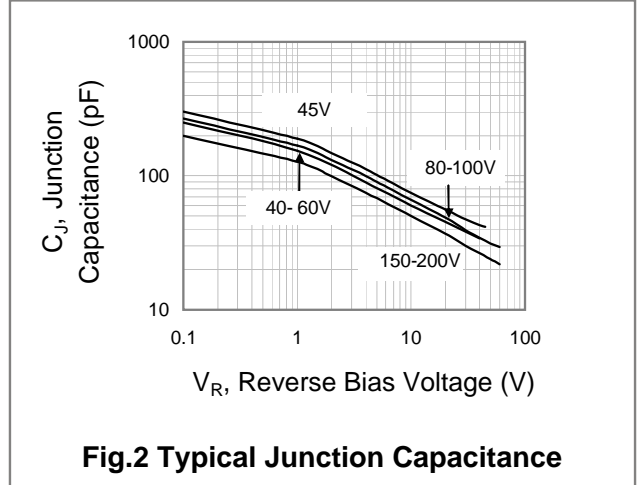
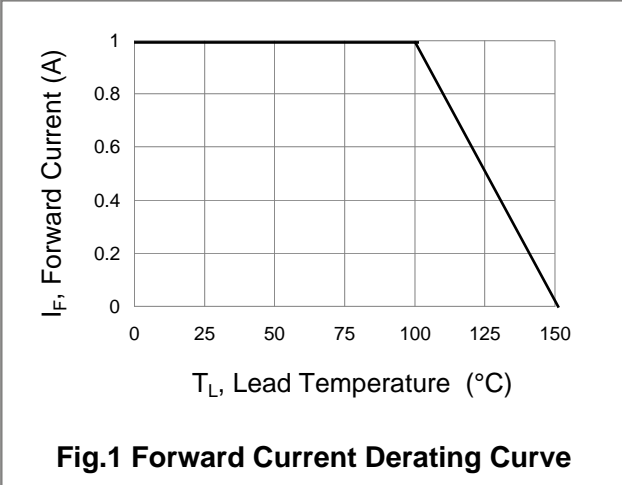
PARAMETER	SYMBOL	TEST CONDITIONS	MB14L	MB15L	MB16L	MB18L	MB110L	MB115L	MB120L	LUNIT
Maximum instantaneous forward voltage (Notes 1)	V _F	I _F =1.0A	0.45	0.55	0.55	0.72	0.72	0.8	0.8	V
Maximum reverse current at rated peak reverse voltage	I _R	T _J =25°C T _J =100°C	0.2 20							mA

NOTES:

1. Pulse test : 300µs pulse width, 1% duty cycle.

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RATING AND CHARACTERISTIC CURVES



The cruve graph is for reference only, can't be the basis for judgment