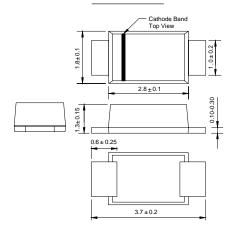
MBR120 THRU MBR140

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 40 Volts Forward Current - 1.0 Ampere

SOD-123FL



Dimensions in millimeters

FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- ◆ Low power loss high efficiency
- High forward surge current capability
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

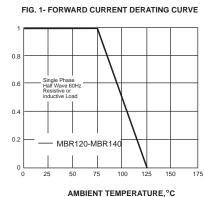
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

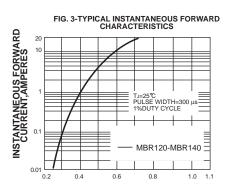
	SYMBOLS MARKING	MBR120 L2E	MBR130 L3L	MBR140 L4F	UNITS
Maximum repetitive peak reverse voltage	Vrrm	20	30	40	VOLTS
Maximum RMS voltage	VRMS	14	21	28	VOLTS
Maximum DC blocking voltage	VDC	20	30	40	VOLTS
Maximum average forward rectified current	l(AV)	1.0			Amp
Peak forward surge current					
8.3ms single half sine-wave superimposed on	IFSM 25.0				Amps
rated load (JEDEC Method)					
Maximum instantaneous forward voltage at 1.0A	VF	0.55			Volts
Maximum DC reverse current Ta=25°C		0.5			mA
at rated DC blocking voltage Ta=100℃	lR		10.0		
Typical junction capacitance (NOTE 1)	Сл	110			pF
Operating junction temperature range	Тı		-65 to +125		°C
Storage temperature range	Тѕтс		-65 to +150		°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES MBR120 THRU MBR140







INSTANTANEOUS FORWARD VOLTAGE, VOLTS

