

# MBR160

**PRV : 60 Volts**  
**I<sub>o</sub> : 1.0 Ampere**

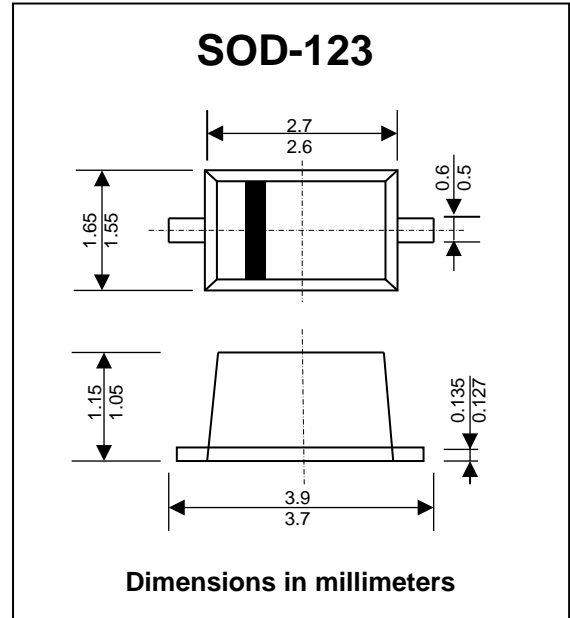
**FEATURES :**

- \* Guardring for Stress Protection
- \* Very Low Forward Voltage
- \* 125 °C Operating Junction Temperature
- \* Package Designed for Optimal Automated Board Assembly
- \* Pb / RoHS Free

**MECHANICAL DATA :**

- \* Case : SOD-123
- \* Weight : 0.01 gram (approximately)

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	60	V
Maximum Working Peak Reverse Voltage	V <sub>RWM</sub>	60	V
Maximum DC Blocking Voltage	V <sub>R</sub>	60	V
Maximum Average Rectified Forward Current, T <sub>L</sub> = 90 °C	I <sub>F(AV)</sub>	1	A
Maximum Non-Repetitive Peak Forward Surge Current ( Surge Applied at Rated Load Conditions Halfwave, Single Phase, 60 HZ)	I <sub>FSM</sub>	20	A
Maximum Instantaneous Forward V	V <sub>F</sub>	0.55 (I <sub>F</sub> = 0.1 A)	V
		0.75 (I <sub>F</sub> = 1 A)	
		1.0 (I <sub>F</sub> = 3 A)	
Maximum Instantaneous Reverse Current at Rated DC Voltage = 60 V	I <sub>R</sub>	500 (T <sub>J</sub> = 25 °C)	µA
Junction Temperature Range	T <sub>J</sub>	- 65 to + 125	°C
Storage Temperature Range	T <sub>STG</sub>	- 65 to + 150	°C

### RATING AND CHARACTERISTIC CURVES ( MBR160 )

FIG.1 - DERATING CURVE

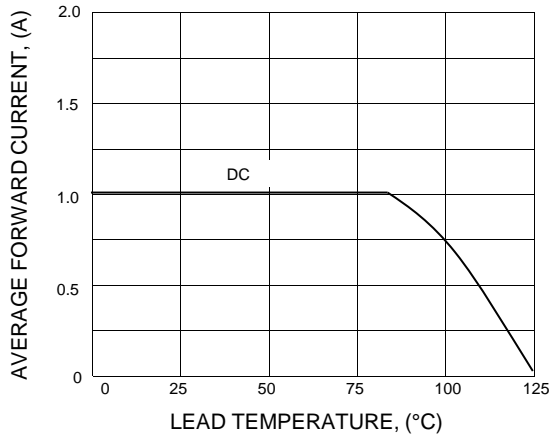


FIG.2 - TYPICAL CAPACITANCE

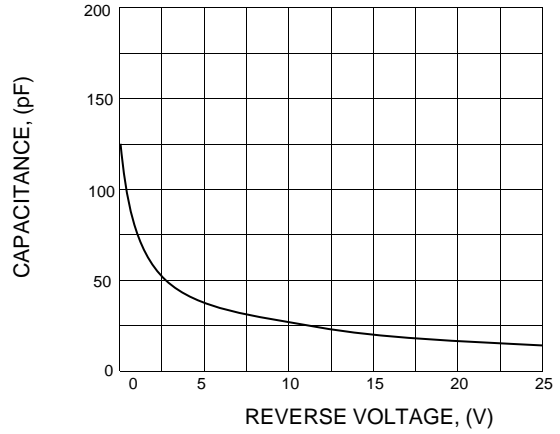


FIG.3 - TYPICAL FORWARD VOLTAGE

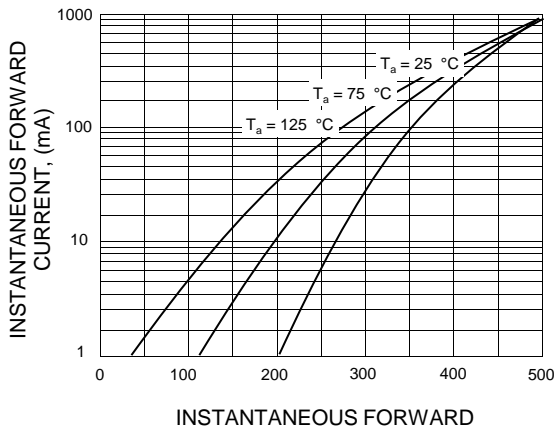


FIG.4 - TYPICAL REVERSE CURRENT

