

SURFACE MOUNT SCHOTTKY POWER RECTIFIER

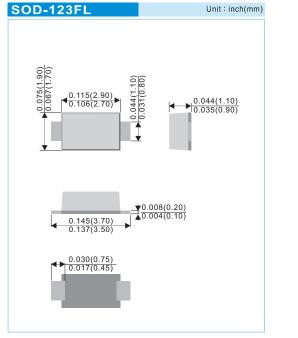
FEATURES

- Guardring for stress protection
- Optimized for very low forward voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- Case: SOD-123FL, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00061 ounces, 0.0173 grams
- Marking code: RL





MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNITS
Peak Repetitive Reverse Voltage	Vrrm	20	V
Average Rectified Forward Current (See Figure 1)	I F(AV)	1.0	A
Non-Repetitive Peak Surge Current (Surge Applied at Rated Load Conitions, Halfwave, Single Phase, 60Hz)	IFSM	45	A
Voltage Rate of Change (Rated VR)	dv/dt	1000	V/µs
Operating Junction and Storage Temperature Range	Тј,Тѕтс	-55 to + 125	°C

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNITS
Typical thermal Resistance-Junction-to-Ambient (Note1)	R⊕ja	200	°C/W
Typical thermal Resistance-Junction-to-Lead (Note2)	R⊕jl	70	

1. Mounted with minmum recommended pad size, PC Board FR4

2.Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm copper pad area

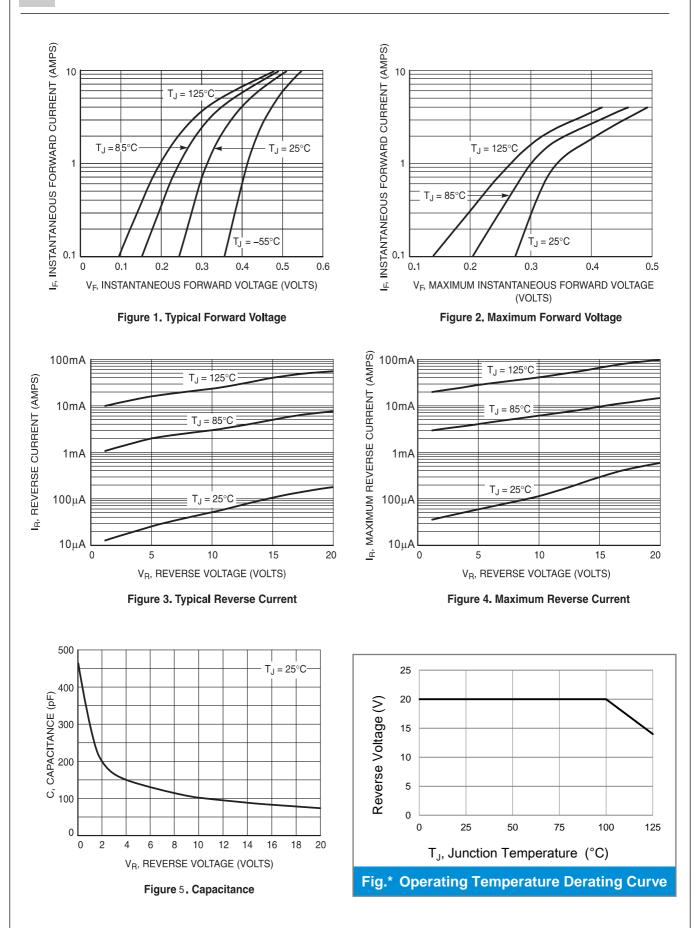
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TJ=25°C	TJ=85°C	UNITS
Maximum Instantaneous Forward Voltage (Note3) F=0.1A F=0.5A F=1.0A	VF	0.275 0.315 0.340	0.205 0.270 0.300	V
Maximum Instantaneous Reverse Current (Note3) (Rated DC Voltage)	l r	0.60	15	mA

3.Pulse Test : Pulse Width = $300\mu s$, Duty Cycle < 2%



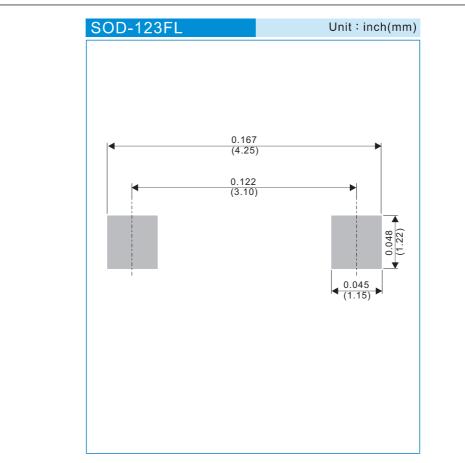
MBR1020VL





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MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel









MBR1020VL

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