



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

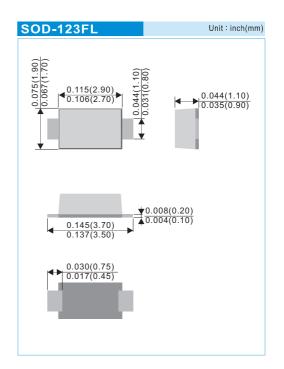
MECHANICAL DATA

· Case: SOD-123FL, Plastic

• Terminals: Solderable per MIL-STD-750, Method 2026

• Approx. Weight: 0.0006 ounces, 0.017 grams

• Marking code : RC



MAXIMUM RATINGS

RATING	SYMBOL	VALUE	UNITS	
Peak Repetitive Reverse Voltage	VRRM	20	V	
Average Rectified Forward Current (At Rated VR,TL=115°C)	Ιo	1.0	А	
Non-Repetitve Peak Surge Current (Non-Repetitive peak current,halfwave,single phase,60Hz)	I FSM	50	А	
Voltage Rate of Change (Rated V _R ,T _J =25°C)	dv/dt	10,000	V/µs	
Storage Temperature	Тѕтс	-55 to + 150	°C	
Operating Junction Temperature	TJ	-55 to + 125	°C	

THERMAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	VALUE	UNITS
Thermal Resistance-Junction-to-Lead(Note1) Thermal Resistance-Junction-to-Lead(Note2) Thermal Resistance-Junction-to-Ambient(Note1) Thermal Resistance-Junction-to-Ambient(Note2)	ROJL ROJL ROJA ROJA	26 21 325 82	°C/W

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

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^{2.}Mounted with 1 in.copper pad (Cu area 700mm²)

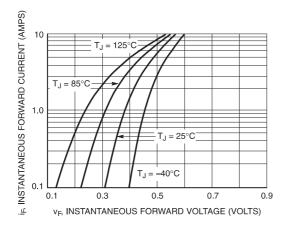




ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	TJ=25°C	TJ=85°C	UNITS
Maximum Instantaneous Forward Voltage (Note3),See Figure 2 I F=0.1A I F=1.0A I F=3.0A	VF	0.340 0.450 0.650	0.260 0.415 0.670	V
Maximum Instantaneous Reverse Current (Note3),See Figure 4 ($V_R=20V$) ($V_R=10V$)	l R	0.40 0.10	25 18	mA

3.Pulse Test : Pulse Width < 250µs, Duty Cycle < 2%



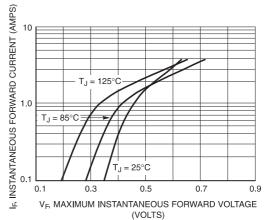


Figure 1. Typical Forward Voltage



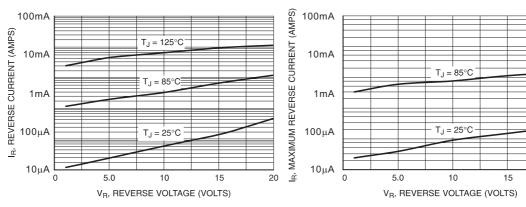


Figure 3. Typical Reverse Current

Figure 4. Maximum Reverse Current

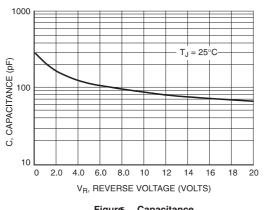


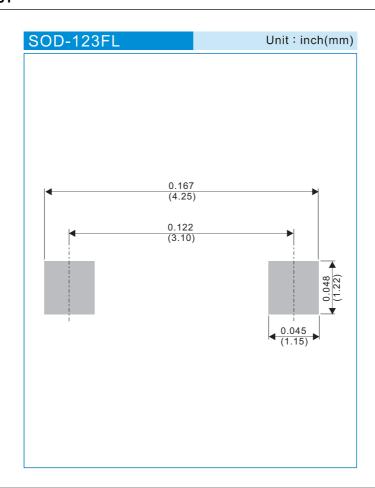
Figure Capacitance

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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





Part No_packing code_Version

MBR1020LL_R1_00001 MBR1020LL_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			

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