



SURFACE MOUNT LOW FORWARD DROP SCHOTTKY BARRIER

VOLTAGE 40 Volt CURRENT 1 Ampere SOD-123FL

FEATURES

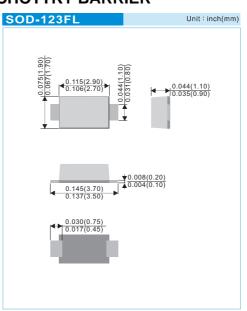
- · Fast switching speed
- Surface mount package ideally suited for automatic insertion
- · Electrical identical standard JEDEC.
- · High conductor
- · Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

- · Case: SOD-123FL, Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.017 grams
- Marking : RU
- Polarity : Color band cathode







ABSOLUTE RATINGS

PARAMETER	Symbol	Value	Units	
Reverse Voltage	VR	40	٧	
Peak Reverse Voltage	VRRM	40	V	
Average Rectified Current	Ιο	1.0	А	
Non-repetitive Peak Forward Surge Current at t=8.3ms	I FSM	40	А	

THERMAL CHARACTERISTICS

PARAMETER	Symbol	Value	Units
Thermal Resistance , Junction to Ambient	$R\theta$ JA	125	°C/W
Junction Temperature	TJ	125	°C
Storage Temperature at Temp=25°C	Тѕтс	-55 to 125	°C

Note.1 Mounted with minimum recommended pad size, PC Board FR4.





ELECTRICAL CHARACTERISTICS

PARAMETER	Symbol	Test Condition	MIN.	TYP.	MAX.	Units
Reverse Breakdown Voltage	V(BR)	I R=500 uA	40	1		V
Reverse Current	IR	V _R =40 V			450	uA
Forward Voltage	VF	I F=0.5A I F=1.0A			0.34 0.36	V
Diode Capacitance	Ст	VR=4V, f=1.0MHz			150	pF

RATING AND CHARACTERISTIC CURVES

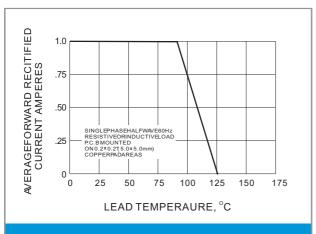


Fig.1- FORWARD CURRENT DERATING CURVE

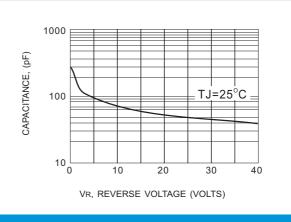
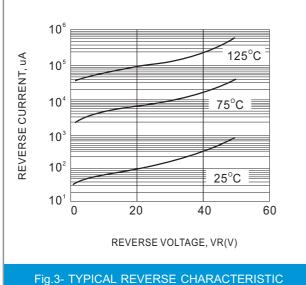
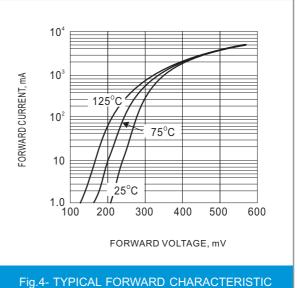


Fig.2- TYPICAL JUNCTION CHARACTERISTIC





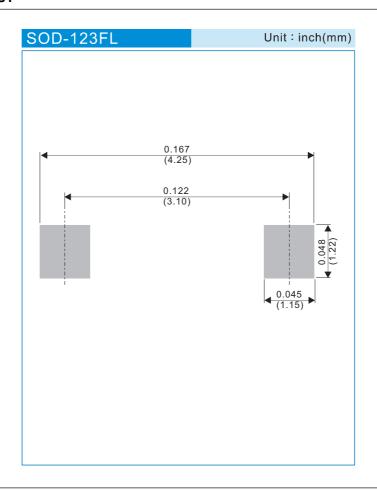


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MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

MBR1040VL_R1_00001 MBR1040VL_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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