

EXTREME LOW VF SCHOTTKY BARRIER RECTIFIER

Voltage 60 V Current 1 A

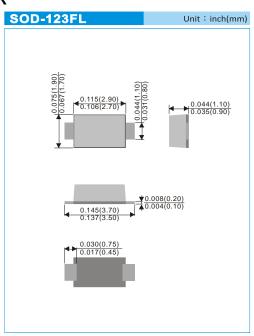
Features

- Ideal for automated placement
- Extreme low forward voltage drop, low power loss
- High efficiency operation
- Low thermal resistance
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: SOD-123FL Molded Plastic
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026
- Weight: 0.0006 ounces, 0.0173 grams





Maximum Ratings And Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	LIMIT	UNIT		
Maximum repetitive peak reverse voltage		Vrrm	60	V	
Maximum rms voltage	VRMS	42	V		
Maximum dc blocking voltage		VR	60	V	
Maximum average forward rectified current		I F(AV)	1	Α	
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		İfsm	40	А	
Torrigat the arrest registers as	(Note 1)	RθJA	200	°C/W	
Typical thermal resistance	(Note 2)	Rөлс	32		
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		Тѕтс	-55 to +150	°C	

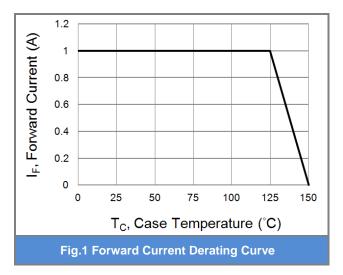
Note: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

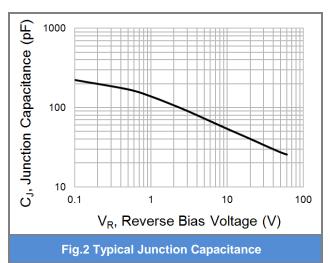
2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

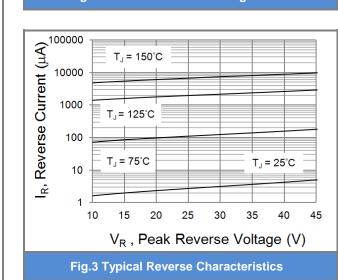


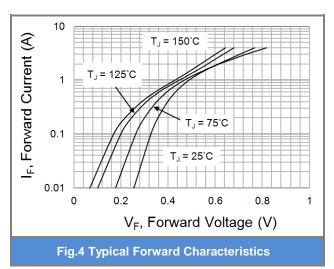
Electrical Characteristics (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION		MIN.	TYP.	MAX.	UNITS
Breakdown voltage	V_{BR}	I _R =0.5mA	T _J =25°C	60	-	-	V
Instantaneous forward voltage	VF	I _F =0.5A	TJ=25°C	-	0.42	-	V
		I _F =1A		-	0.49	0.54	
		I _F =0.5A	TJ=125°C	-	0.33	-	V
		I _F =1A		-	0.45	-	
Reverse current	l _R	V _R =48V	T _J =25°C	-	5.5	-	μА
		V _R =60V	TJ=25°C	-	-	30	μА
			TJ=125°C	-	4.5	-	mA





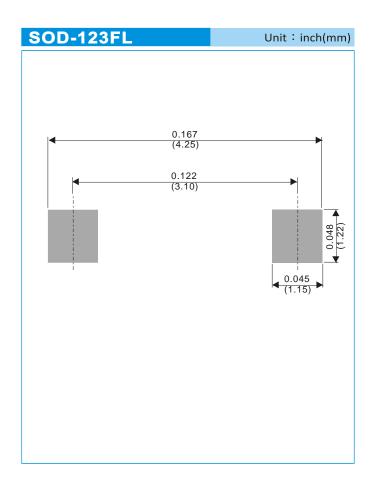




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MOUNTING PAD LAYOUT

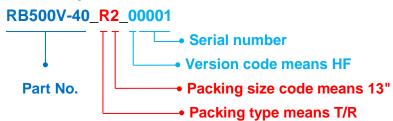




Product and Packing Information

Part No.	Package Type Packing Type		Marking
SS1060XFL	SOD-123FL	3K pcs / 7" reel	6X
SS1060XFL	SOD-123FL	10K pcs / 13" reel	6X

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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