



ULTRA LOW VF SCHOTTKY BARRIER RECTIFIER

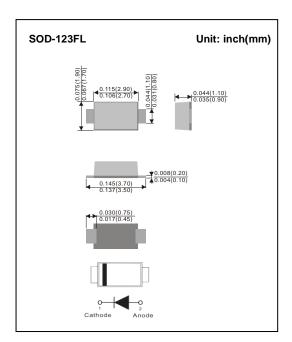
Voltage 60 V Current 2 A

Features

- Ideal for automated placement
- Ultra 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)	2	Α		
Peak forward surge current : 8.3ms single half si wave superimposed on rated load	IFSM	50	А		
Typical junction capacitance (V _R =4V, f=1MHZ)	CJ	100	pF		
Torical theory of containing	(Note 2)	$R_{ heta JC}$	32	°C/W	
Typical thermal resistance	(Note 1)	$R_{\theta JA}$	200		
Operating junction temperature range		Тл	-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	ı	-	V
Instantaneous forward voltage	V _F	I _F =0.5A	T _J =25°C	-	0.35	-	V
		I _F =2A		-	-	0.54	
		I _F =0.5A	T _J =125°C	-	0.28	-	V
		I _F =2A		-	0.48	-	
Reverse current (Note 3)	I _R	V _R =48V	T _J =25°C	-	6.6	-	μΑ
		V _R =60V	T _J =25°C	-	-	50	μА
			T _J =125°C	-	3	-	mA

Note: 3. Short duration pulse test used to minimize self-heating effect.





TYPICAL CHARACTERISTIC CURVES

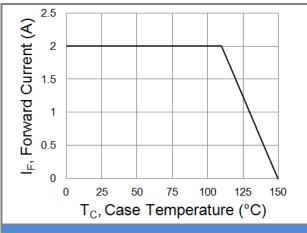


Fig.1 Forward Current Derating Curve

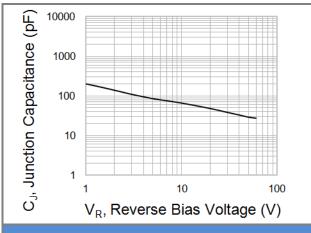


Fig.2 Typical Junction Capacitance

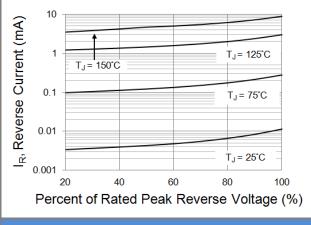


Fig.3 Typical Reverse Characteristics

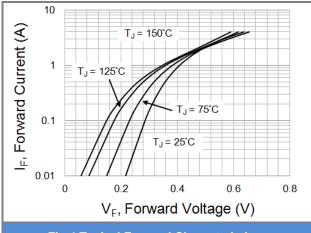


Fig.4 Typical Forward Characteristics

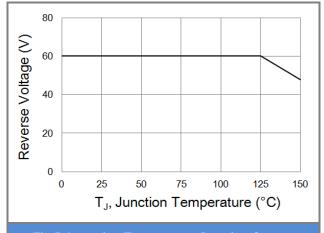


Fig.5 Operating Temperature Derating Curve

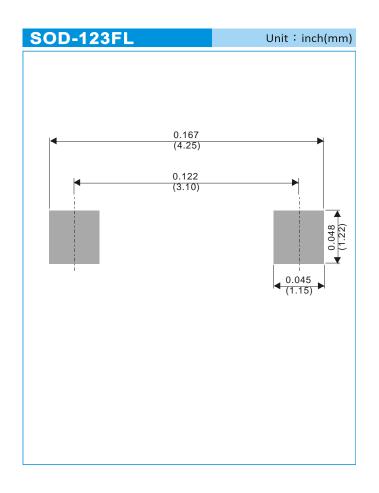




PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBM260VAL_R1_00001	SOD-123FL	3K pcs / 7" reel	3VA	Halogen free
SBM260VAL_R2_00001	SOD-123FL	10K pcs / 13" reel	3VA	Halogen free

Mounting Pad Layout







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