



Surface Mount Extreme Low V_F Schottky Barrier Rectifier

Voltage 40 V Current 3 A

Features

- Extreme low forward voltage drop
- Low power loss, high efficiency
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Applications

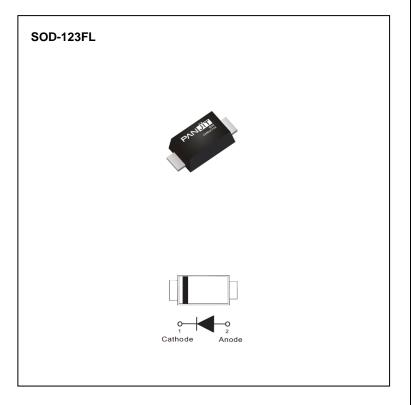
- Low voltage rectification
- Reverse polarity protection
- Low power consumption applications

Mechanical Data

Case : SOD-123FL Package

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

• Approx. Weight: 0.0173 grams



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

PARAMETER		SYMBOL	LIMIT	UNIT	
Maximum repetitive peak reverse voltage		V_{RRM}	40	V	
Maximum RMS voltage		V _{RMS}	28	V	
Maximum DC blocking voltage		V _R	40	V	
Maximum average forward rectified current		I _{F(AV)}	3	А	
Peak forward surge current : 8.3ms single half sine-wave Superimposed on rated load		IFSM	50	А	
Typical thermal resistance	(Note 2)	Rejc	32	0000	
	(Note 1)	Reja	200	°C/W	
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		T _{STG}	-55 to +150	°C	

Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION		LIMIT		LIMIT
				TYP.	MAX.	UNIT
Forward voltage	VF	$I_F = 10mA$	T _J =25 °C	0.21	-	V
		$I_F = 1A$		0.35	-	
		$I_F = 3A$		-	0.48	
		I _F = 10mA	T _J =125 °C	0.06	-	V
		I _F = 1A		0.27	-	
Reverse current	I _R	V _R = 10V	TJ=25 °C	16	-	uA
		V _R = 20V		21	-	
		V _R = 30V		35	-	
		V _R = 40V		-	150	
		V _R = 20V	T _J =125 °C	5.1	-	mA
		$V_R = 30V$		7.6	-	
		V _R = 40V	12	-		

 ${\tt NOTES: 1.\ Mounted\ on\ a\ FR4\ PCB,\ single-sided\ copper,\ standard\ footprint.}$

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





TYPICAL CHARACTERISTIC CURVES

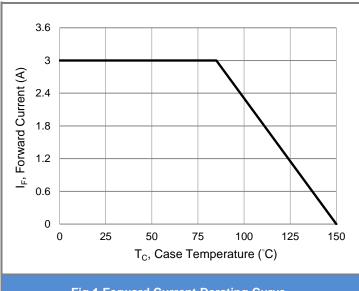
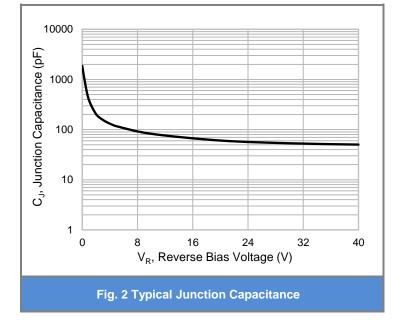


Fig.1 Forward Current Derating Curve



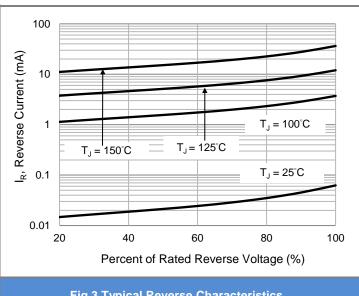
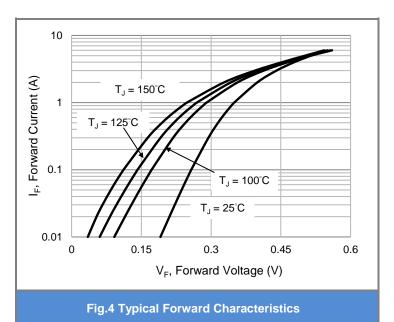


Fig.3 Typical Reverse Characteristics



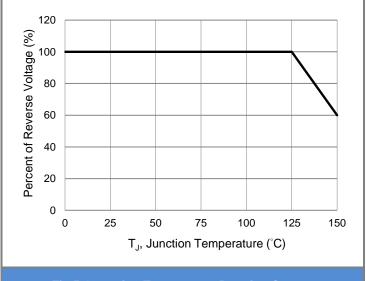


Fig.5 Operating Temperature Derating Curve

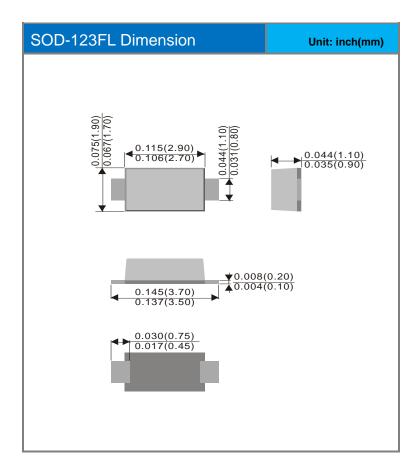


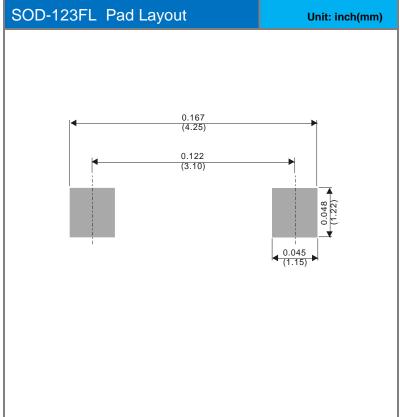


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
SBA340AL-AU	SOD-123FL	3K pcs / 7" reel	G7

Packaging Information & Mounting Pad Layout









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