

SBA340AL-AU

Surface Mount Extreme Low V_F Schottky Barrier Rectifier

Voltage	40 V	Current	3 A	
Features				
Extreme low for	orward voltage dro	р		
•	s, high efficiency			
 AEC-Q101 qua 				
 Lead free in co 	•			
 Green molding 	compound as pe	er IEC 61249 standa	rd	
Application	S			
, application				
Low voltage re	ectification			
Low voltage reReverse polari	ty protection			
Low voltage reReverse polari		itions		
Low voltage reReverse polari	ty protection	itions		

- 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 volt	age	Vrrm	40	V
Maximum RMS voltage		VRMS	28	V
Maximum DC blocking voltage		VR	40	V
Maximum average forward rectified current		I _{F(AV)}	3	А
Peak forward surge current : 8.3ms si Superimposed on rated load	ngle half sine-wave	IFSM	50	А
	(Note 2)	Rejc	32	°0.444
Typical thermal resistance	(Note 1)	Reja	200	°C/W
Operating junction temperature range		TJ	-55 to +150	°C
Storage temperature range		T _{STG}	-55 to +150	°C

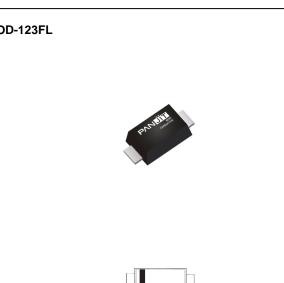
Electrical Characteristics

DADAMETED	0/4/2.01	TEST CONDITION		LIMIT		
PARAMETER	SYMBOL	TEST CO	NUTION	TYP.	MAX.	UNIT
		I _F = 10mA	T _J =25 °C	0.21	-	
		I _F = 1A		0.35	-	V
Forward voltage	VF	I _F = 3A		-	0.48	
		I⊧ = 10mA	T 405 °C	0.06	-	
		I _F = 1A	1j=125 C	0.27	-	V
		V _R = 10V		16	-	
		$V_R = 20V$	T _J =125 °C 0.27	-		
		$V_R = 30V$	1J=25 C	35	-	uA
Reverse current	I _R	$V_R = 40V$		-	150	
		$V_R = 20V$	T _J =125 °C	5.1	-	
		$V_R = 30V$		7.6	-	mA
		$V_R = 40V$		12	-	

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

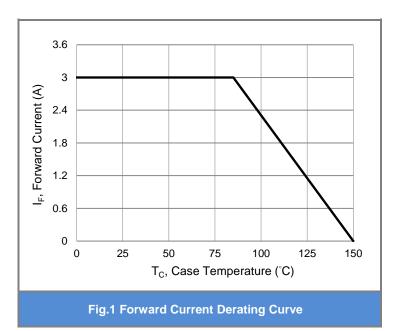
2. Mounted on a FR4 PCB, single-sided copper, with $100 cm^2$ copper pad area.







TYPICAL CHARACTERISTIC CURVES



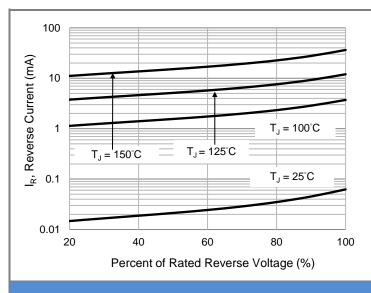
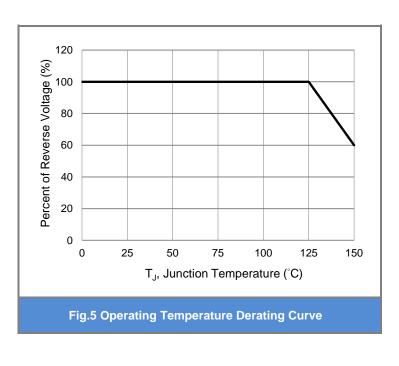
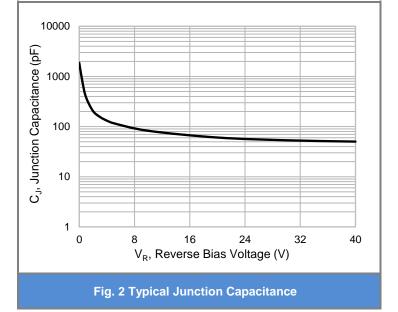


Fig.3 Typical Reverse Characteristics





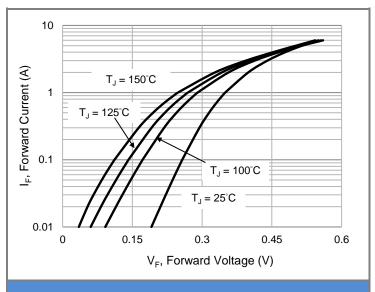


Fig.4 Typical Forward Characteristics

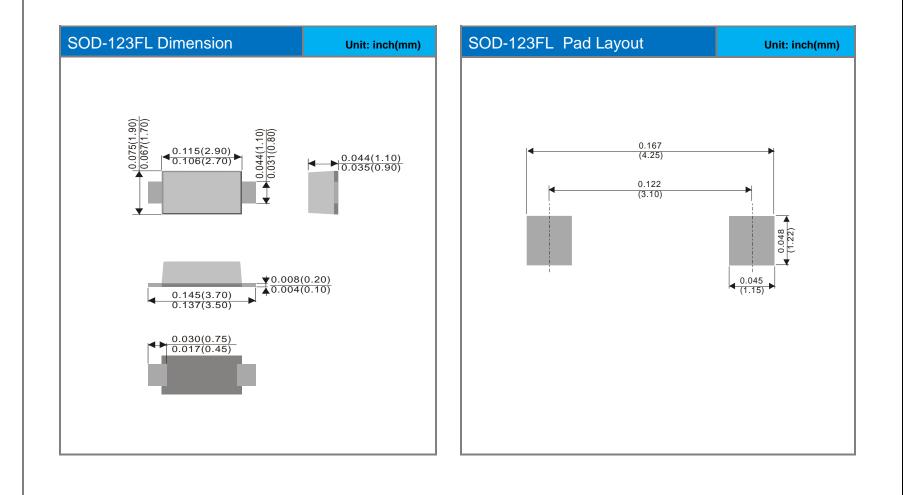


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Product and Packing Information

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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