



EXTREME LOW VF SCHOTTKY RECTIFIER

Voltage 20-40 V Current 2 A

Features

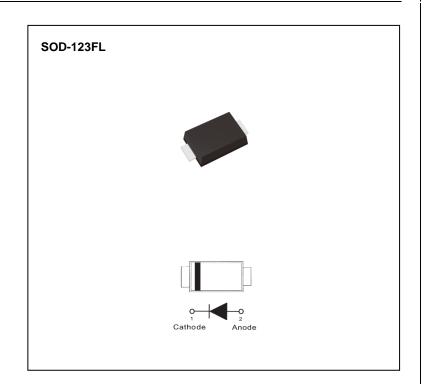
- Ultra low forward voltage drop, low power loss
- Fast switching speed
- Surface mount package
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Applications

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

Mechanical Data

- Case: Molded plastic, SOD-123FL
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0173 grams



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

PARAMETER	SYMBOL	SBA220AL	SBA230AL	SBA240AL	UNIT	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	V	
Maximum rms voltage	V_{RMS}	14	21	28	V	
Maximum dc blocking voltage	V_R	20	30	40	V	
Maximum average forward rectified current	I _{F(AV)}	2				
Peak forward surge current: 8.3ms single half sinewave Superimposed on rated load	I _{FSM}	30				
	R _{eJC} (1)	32				
Typical thermal resistance	R _{0JA} (2)	200				
Operating junction temperature range	TJ	-55 to +150				
Storage temperature range	T _{STG}	-55 to +150				

Electrical Characteristics

DADAMETED	SYMBOL	TEST CONDITION		SBA220AL		SBA230AL		SBA240AL		LINUT
PARAMETER				TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	UNIT
Forward voltage	V _F	I _F = 10mA	T _J =25 °C	0.21	-	0.21	-	0.22	-	V
		I _F = 0.5A		0.33	-	0.34	-	0.37	-	
		I _F = 2A		-	0.46	-	0.49	-	0.53	
		I _F = 10mA	T _J =125 °C	0.09	-	0.09	-	0.1	-	V
		I _F = 0.5A		0.24	-	0.26	-	0.27	-	
Reverse current	I _R ⁽³⁾	V _R = 10V	Т _J =25°С	14	-	9	-	7.4	-	μА
		V _R = 20V		-	100	25	-	9.6	-	
		$V_{R} = 30V$		-	-	-	100	16	-	
		V _R = 40V		-	-	-	-	-	100	
		$V_R = 20V$	T _J =125 °C	6.1	-	3.7	-	2.3	-	mA
		$V_R = 30V$		-	-	9.6	-	3.5	-	
		$V_R = 40V$		-	-	-	-	5.6	-	

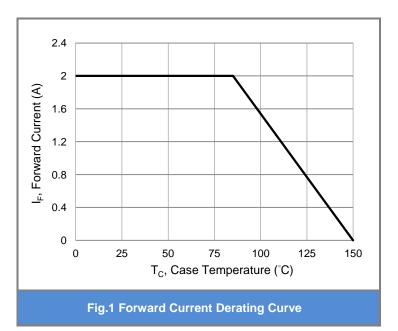
Note: 1. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area.

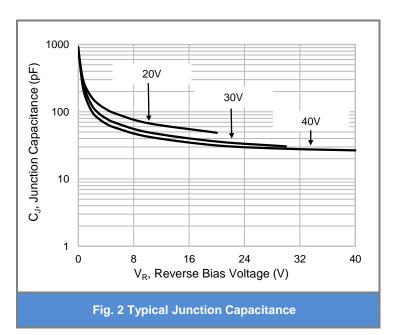
- 2. Mounted on a FR4 PCB, single-sided copper, mini pad.
- $3. \ Short \ duration \ pulse \ test \ used \ to \ minimize \ self-heating \ effect.$

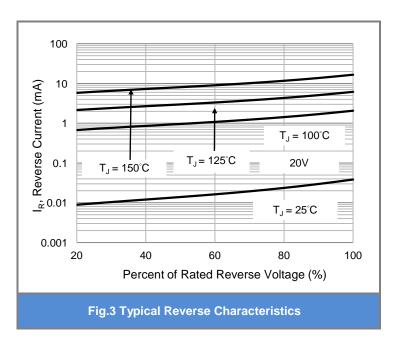


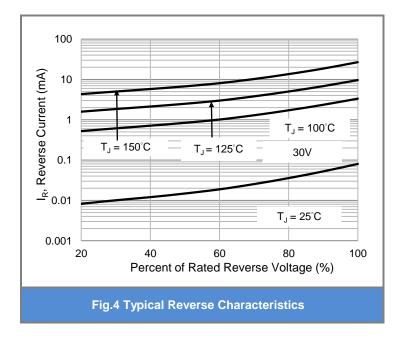


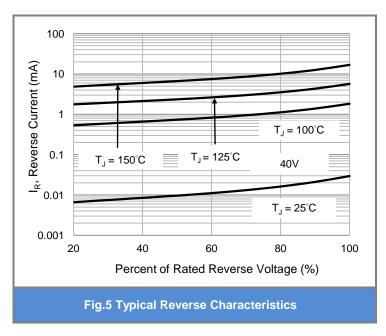
TYPICAL CHARACTERISTIC CURVES

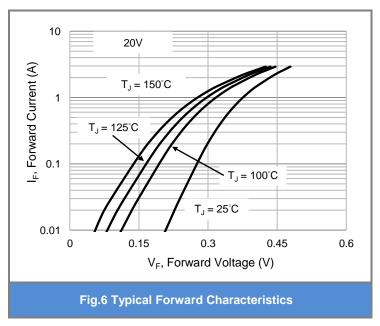






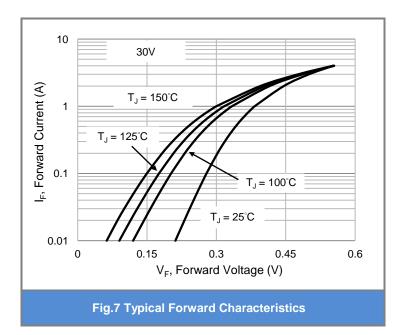


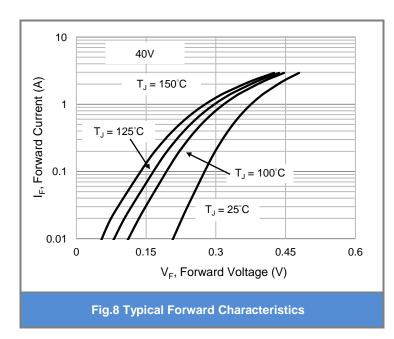


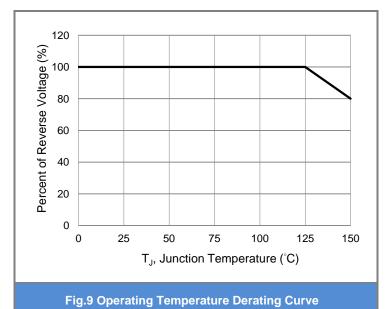












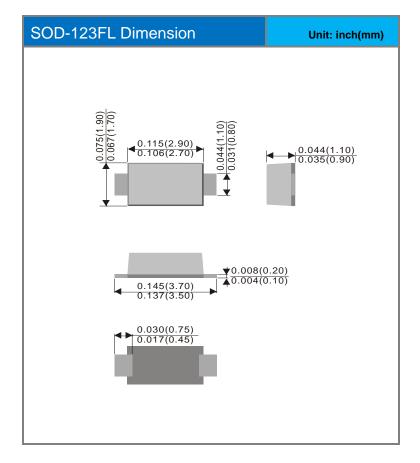


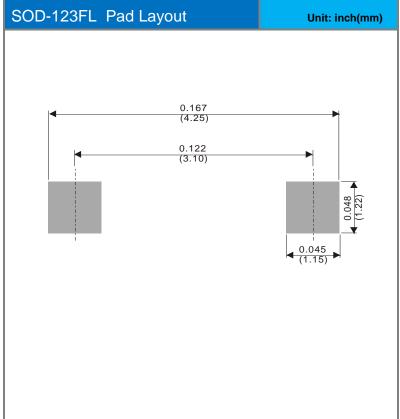


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBA220AL_R1_00001	SOD-123FL	3K pcs / 7" reel	В7	Halogen free
SBA230AL_R1_00001	SOD-123FL	3K pcs / 7" reel	C7	Halogen free
SBA240AL_R1_00001	SOD-123FL	3K pcs / 7" reel	C33	Halogen free

Packaging Information & Mounting Pad Layout









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