

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 • AEC-Q101 qualified Applications • Low voltage rectification

- Reverse polarity protection
- Low power consumption applications

Mechanical Data

- Case: Molded plastic, SOD-123HE
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0006 ounces, 0.0184 grams

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

PARAMETER	SYMBOL	SBA220AH-AU	SBA230AH-AU	SBA240AH-AU	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 sine- wave Superimposed on rated load	I _{FSM}	30				
	$R_{ extsf{ heta}JC}$ (1)	20				
Typical thermal resistance	$R_{ extsf{ heta}JA}^{(2)}$	185				
Operating junction temperature range	TJ	-55 to +150				
Storage temperature range	T _{STG}	-55 to +150				

SOD-123HE

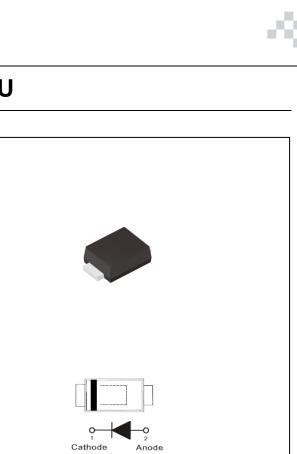
Electrical Characteristics

DADAMETED	SYMBOL	TEST CONDITION		SBA220AH-AU		SBA230AH-AU		SBA240AH-AU		
PARAMETER				TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	UNIT
Forward voltage		$I_F = 10mA$	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	
		$I_F = 10 \text{mA}$	T _J =125 °C	0.09	-	0.09	-	0.1	-	V
		I _F = 0.5A		0.24	-	0.26	-	0.27	-	
Reverse current		V _R = 10V	TJ=25°C	14	-	9	-	7.4	-	μΑ
	Ι _R ⁽³⁾	$V_R = 20V$		-	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.

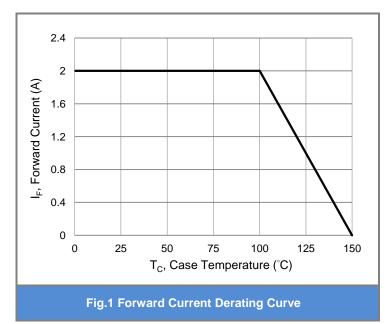
2. Mounted on a FR4 PCB, single-sided copper, mini pad.

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





TYPICAL CHARACTERISTIC CURVES



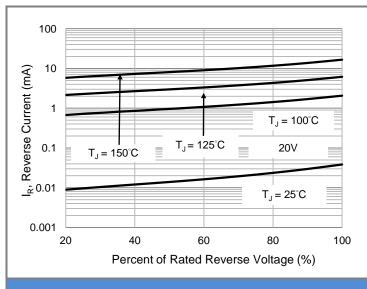
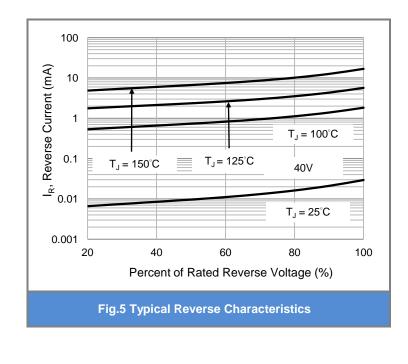
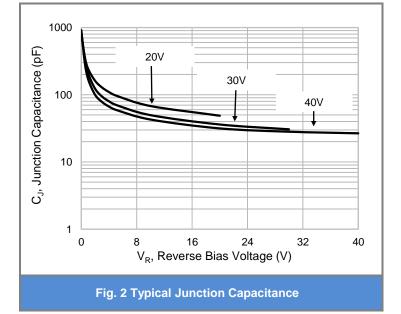


Fig.3 Typical Reverse Characteristics





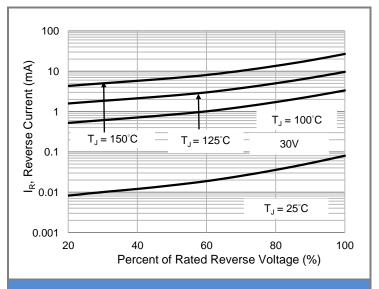
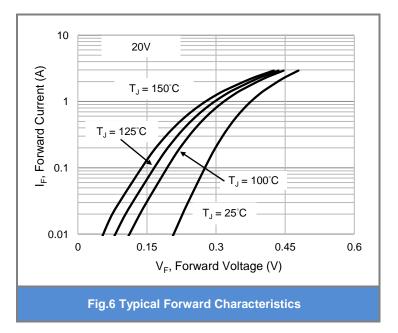


Fig.4 Typical Reverse Characteristics





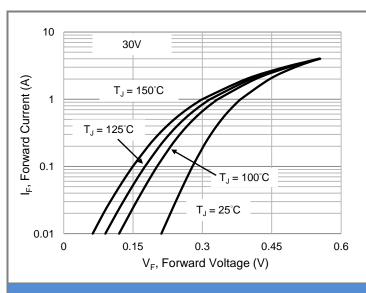
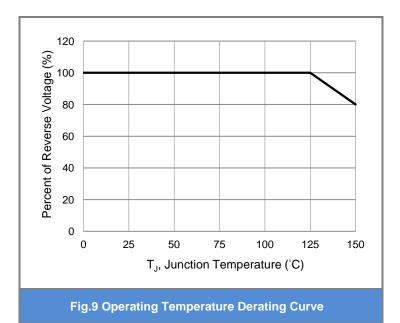
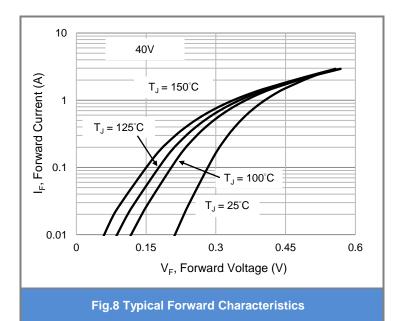


Fig.7 Typical Forward Characteristics



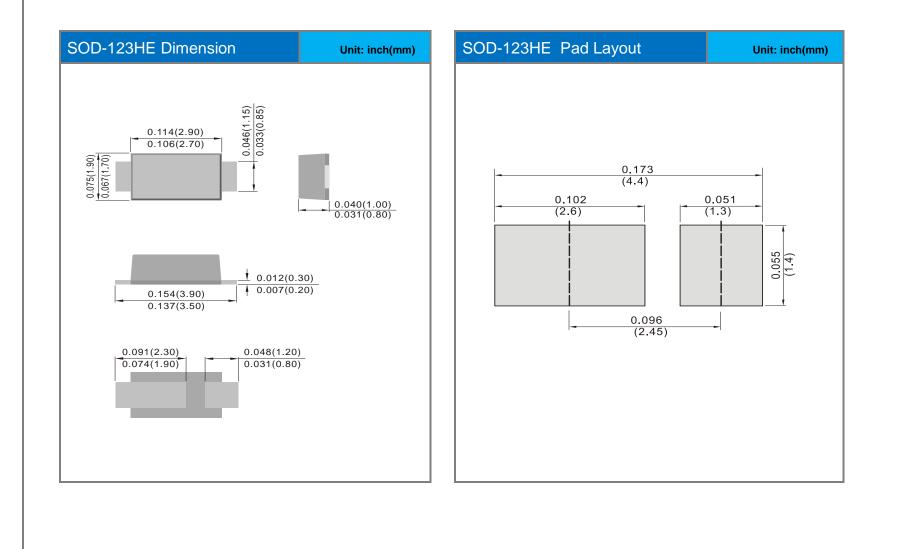




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBA220AH-AU_R1_000A1	SOD-123HE	3K pcs / 7" reel	В7	Halogen free
SBA230AH-AU_R1_000A1	SOD-123HE	3K pcs / 7" reel	E7	Halogen free
SBA240AH-AU_R1_000A1	SOD-123HE	3K pcs / 7" reel	F7	Halogen free

Packaging Information & Mounting Pad Layout



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