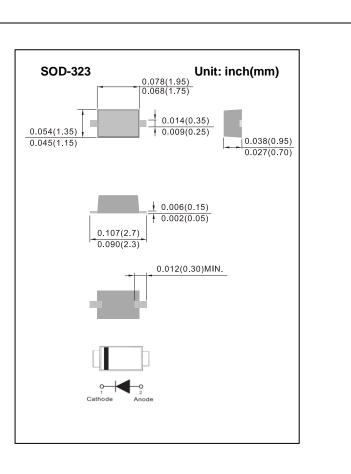


Mechanical Data

- Case: Molded plastic, SOD-323
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams



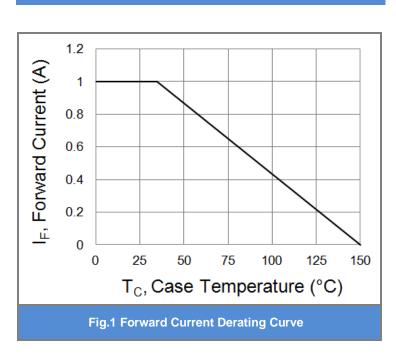
Maximum Ratings And Electrical Characteristics ($T_A=25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	SBA120CS	SBA130CS	SBA140CS	UNIT
Maximum repetitive peak reverse voltage		Vrrm	20	30	40	V
Maximum rms voltage		Vrms	14	21	28	V
Maximum dc blocking voltage		VR	20	30	40	V
Maximum average forward rectified current		IF(AV)	1			Α
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		IFSM	8			А
Typical forward voltage at 10mA		VF	0.22	0.22	0.23	V
Typical forward voltage at 0.5A		VF	0.35	0.36	0.39	V
Maximum forward voltage at 1A		VF	0.45	0.47	0.51	V
Maximum dc reverse current at TJ=25 °C		Ir	100			μA
Typical thermal resistance	(Note 1)	$R_{ extsf{ heta}JC}$	230 650			°C/W
	(Note 2)	$R_{ extsf{ heta}JA}$				
Operating junction temperature range		TJ	-55 to +150			°C
Storage temperature range		Тѕтс	-55 to +150			°C

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.





TYPICAL CHARACTERISTIC CURVES

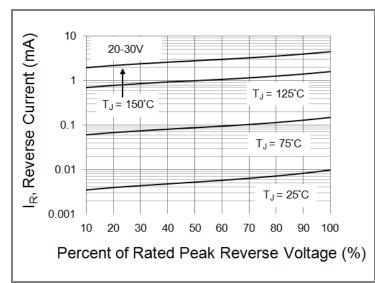
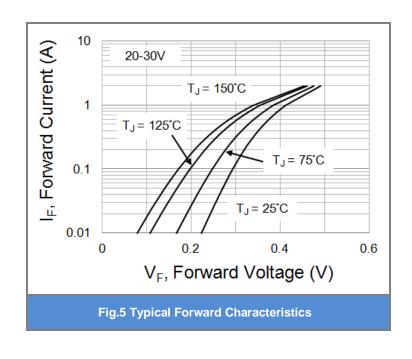
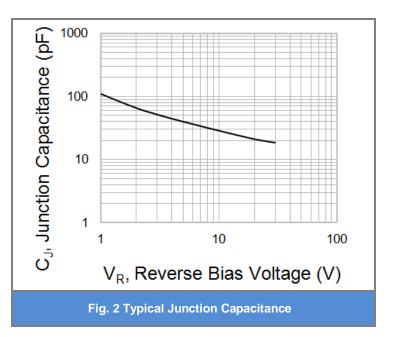


Fig.3 Typical Reverse Characteristics





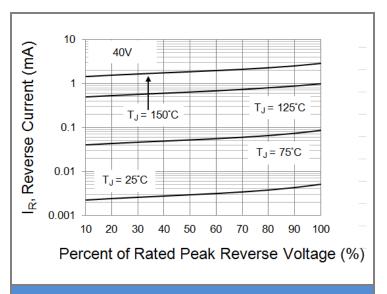
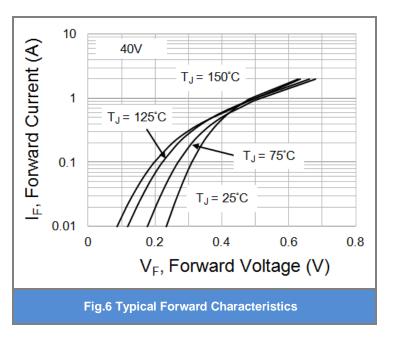
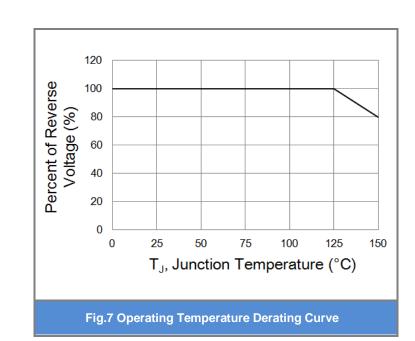


Fig.4 Typical Reverse Characteristics







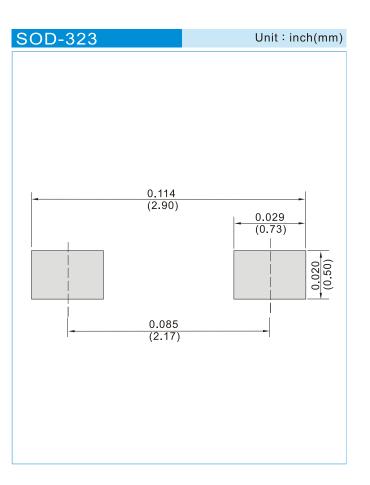




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
SBA120CS_R1_00001	SOD-323	5K pcs / 7" reel	A7	Halogen free
SBA120CS_R2_00001	SOD-323	12K pcs / 13" reel	A7	Halogen free
SBA130CS_R1_00001	SOD-323	5K pcs / 7" reel	В7	Halogen free
SBA130CS_R2_00001	SOD-323	12K pcs / 13" reel	B7	Halogen free
SBA140CS_R1_00001	SOD-323	5K pcs / 7" reel	C7	Halogen free
SBA140CS_R2_00001	SOD-323	12K pcs / 13" reel	C7	Halogen free

Mounting Pad Layout





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