



P SS34B THRU SS310B(Halogen Free)

Schottky Barrier Diode

Reverse Voltage 40 - 100 Volts Forward Current - 3.0 Amperes

Features

- High current capability.
- Ideal for automated placement.
- Low reverse current.
- Comply with AEC-Q101.

Mechanical Data

- Case: SMB, molded plastic.
- Epoxy: UL flammability classification rate 94V-0.
- ●Terminals: Lead free plating (Tin finish).
 - per MIL-STD-202, method 208.
- Polarity: Indicated by cathode band.

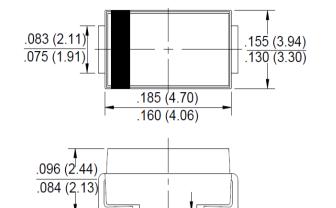
Circuit diagram



SMB

.060(1.52)

.030 (0.76)



Package Outline Dimensions in Inches (Millimeters)

220 (5.59)

.195 (4.95)

0080 (.203)

.0008 (.020)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	SS34B	SS36B	SS310B	Unit
	Marking	340	360	3100	
Maximum Repetitive peak reverse voltage	Vrrm	40	60	100	V
Maximum RMS voltage	VRMS	28	42	70	V
Maximum DC blocking voltage	VDC	40	60	100	V
Maximum Average forward rectified current	lf	3		А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	80			А
Maximum Instantaneous forward voltage IF=3A @ 25°C	VF	0.5	0.7	0.85	V
Maximum DC reverse current @Tj=25°C	IR —	0.5		0.2	μА
at rated DC blocking voltage @Tj=100°C	IR _	10		5	
Typical junction capacitance (Note 1)	CJ	150		100	pF
Thermal Resistance Junction (Note2)	Rejc	35		°C/W	
Operating temperature range	TJ	-55 to + 125 -55		-55 to + 150	$^{\circ}\!\mathbb{C}$
Storage temperature range	Тѕтс	-55 to + 150			$^{\circ}\! \mathbb{C}$

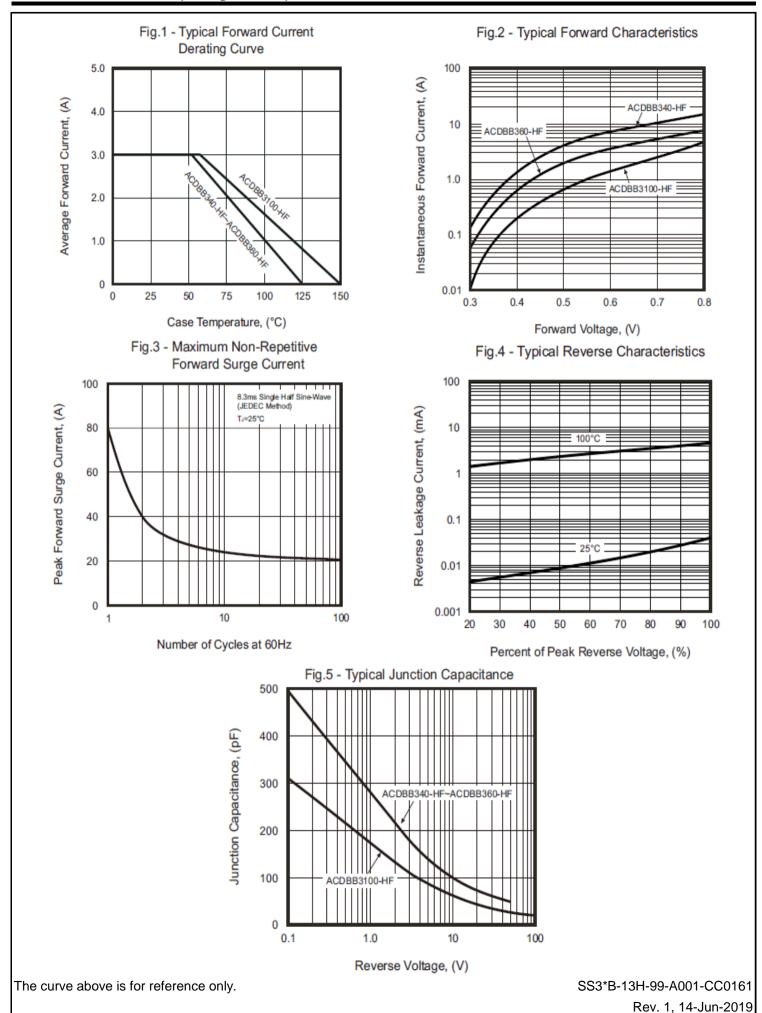
Notes: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC

2. Device mounted on FR4 substrate, 0.4" x 0.5" , 2oz, single-sided, PC boards with 0.2" x 0.25" copper pad.

SS3*B-13H-99-A001-CC0161

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