

3.0A Surface Mount Schottky Rectifier

Features

- Low Profile in SMB Package
- High current capability, low forward voltage drop
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering guaranteed: 260° C/10 seconds, at terminals
- RoHS compliant



Mechanical Data

Case:	JEDEC DO-214AA, Molded plastic body
Terminals:	Solder plated, solderable per MIL-STD-750D, Method 2026
Polarity	Color band denotes the cathode end

Maximum Ratings & Electrical Characteristics *(T_{Ambient}=25°C unless noted otherwise)*

Symbols	Description	SS 32B	SS 33B	SS 34B	SS 35B	SS 36B	SS 38B	SS 39B	SS 310B	Unit	Conditions
VRRM	Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	80	90	100	V	
VRMS	Maximum RMS Voltage	14	21	28	35	42	56	63	70	V	
VDC	Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V	
I(AV)	Maximum Average Forward Rectified Current (FIG.1)	3.0								A	
IFSM	Peak Forward Surge Current (JEDEC Method)	80.0								A	8.3ms single half sine-wave
VF	Maximum Instantaneous Forward Voltage at 3.0A	0.50			0.75		0.85			V	Pulse width=300μS, 1% duty cycle
IR	Maximum DC Reverse Current at Rated DC Blocking Voltage	0.5								mA	Tj = 25 °C
		20			10						Tj= 100 °C
RθJA RθJL	Maximum Thermal Resistance, Junction to Ambient	17								° C/W	PCB mounted with copper pad area of 0.55 x 0.55" (14 x 14mm)
		55									
CJ	Typical Junction Capacitance (NOTE)	200								pf	VR=4V, f=1MHz
TJ	Operating Junction Temperature Range	-55 to +125			-55 to +150					° C	
TSTG	Storage Temperature Range	-55 to +150								° C	

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SS32B - SS310B

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

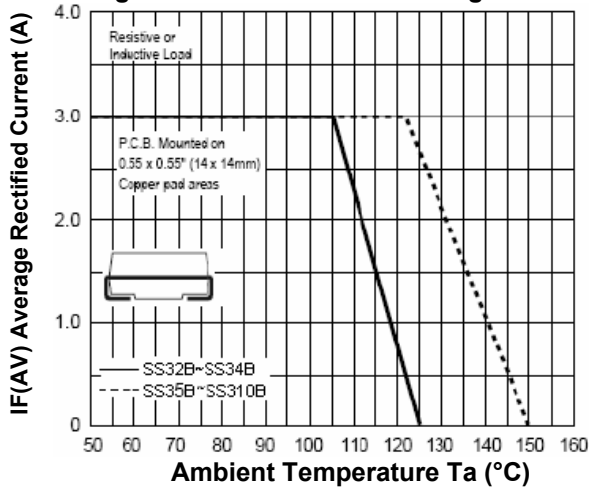


Fig.2- Max. Non-Repetitive Forward Surge Current

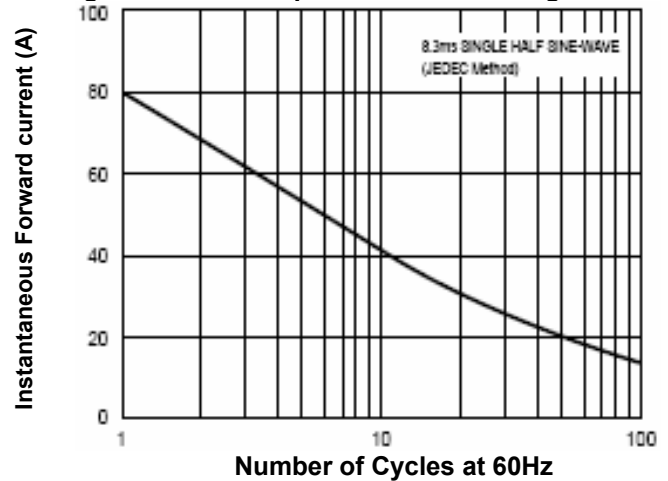


Fig.3- Typical Forward Characteristics

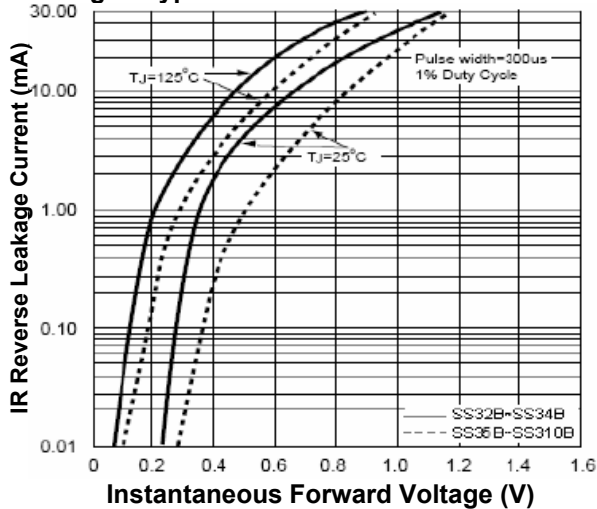


Fig.4- Typical Reverse Characteristics

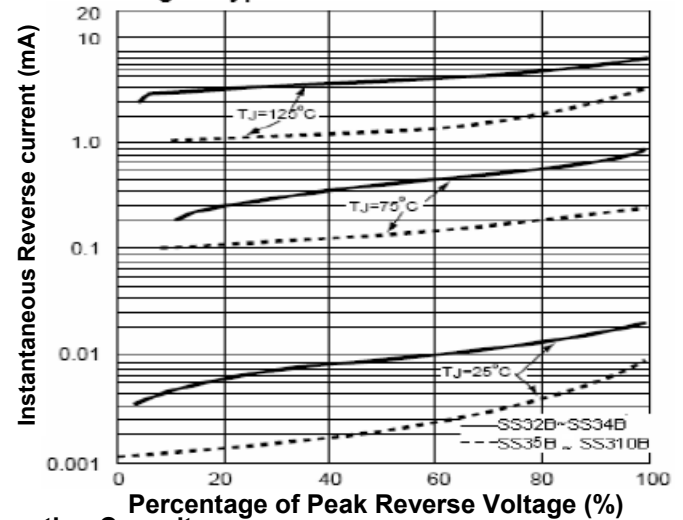
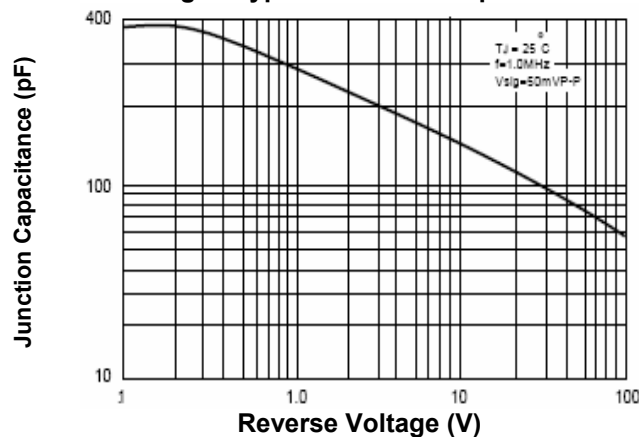


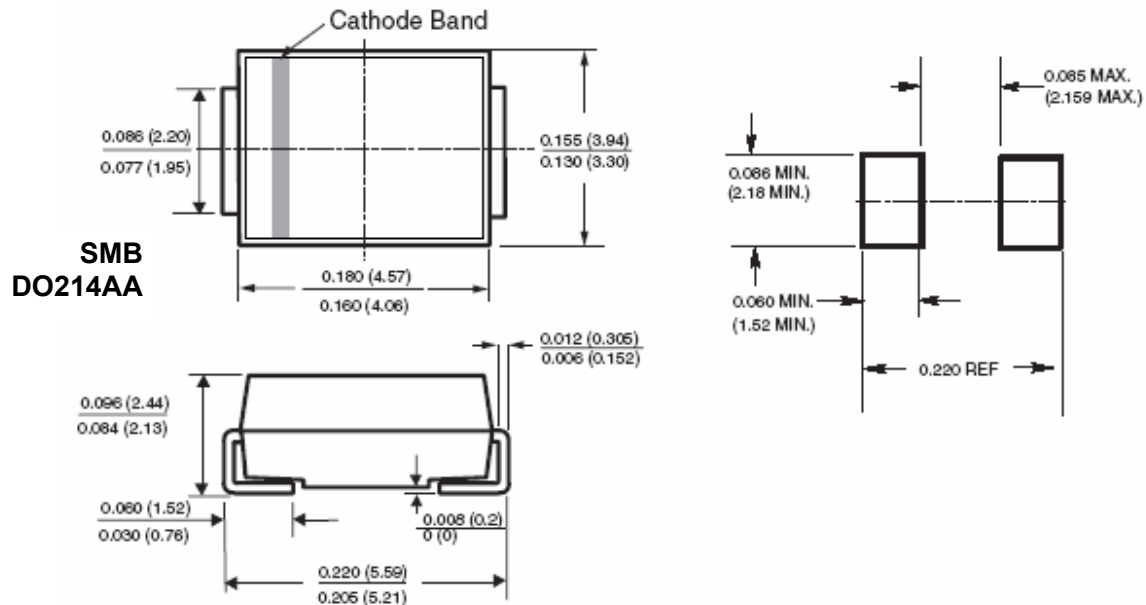
Fig.5- Typical Junction Capacitance



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Dimensions in inches (mm)



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