

Surface Mount Schottky Barrier Rectifier

Features

- Low Profile in SMC Package
- Low power loss, high efficiency
- Low Forward Voltage Drop
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- RoHS Compliant



SMC



Mechanical Data

Case:	JEDEC DO-214AB(SMC) molded plastic
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity	Color band denotes the cathode end
Weight	0.007 Ounce, 0. 21 gram

Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbols	Description	SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	Unit
VRMS	Maximum RMS voltage	14	21	28	35	42	56	63	70	V
VRRM	Maximum repetitive peak reverse voltage	20	30	40	50	60	80	90	100	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
VF	Maximum instantaneous forward voltage at 3.0A	0.50			0.70		0.85			V
IR	Maximum DC reverse current at rated DC blocking voltage	TA =25°C					2.0			mA
		TA =100°C					20.0			
RθJA	Maximum thermal resistance, Junction to Ambient	17								° C/W
CJ	Typical Junction Capacitance (NOTE)	300								pf
TJ	Operating junction temperature range	-50 to +125			-50 to +150					° C
TSTG	Storage Temperature Range	-65 to +150								° C

NOTES: Measured at 1MHz and applier reverse voltage of 4.0VDC.

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SS32 - SS310

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

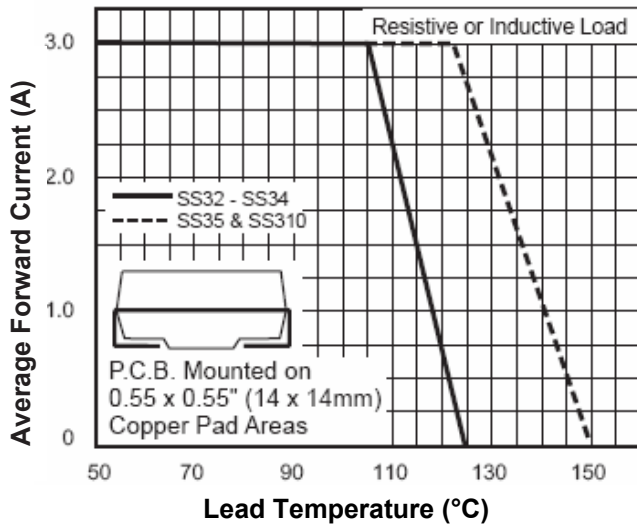


Fig.2- Non-repetitive Peak Forward Surge Current

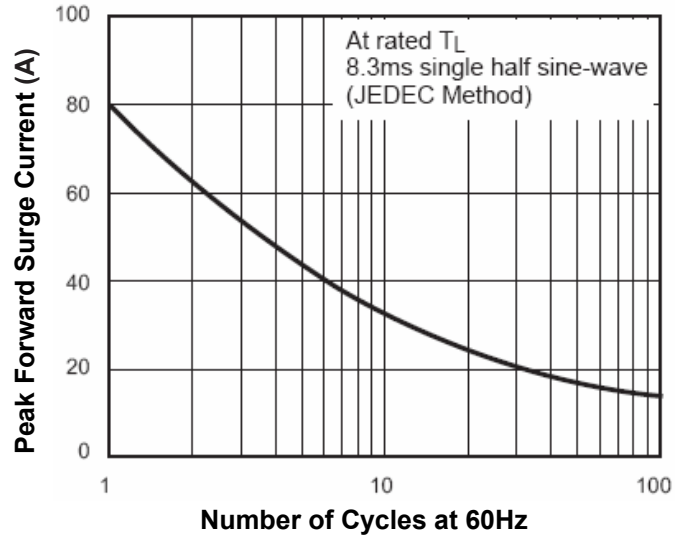


Fig.3- Typical Instantaneous Forward Characteristics

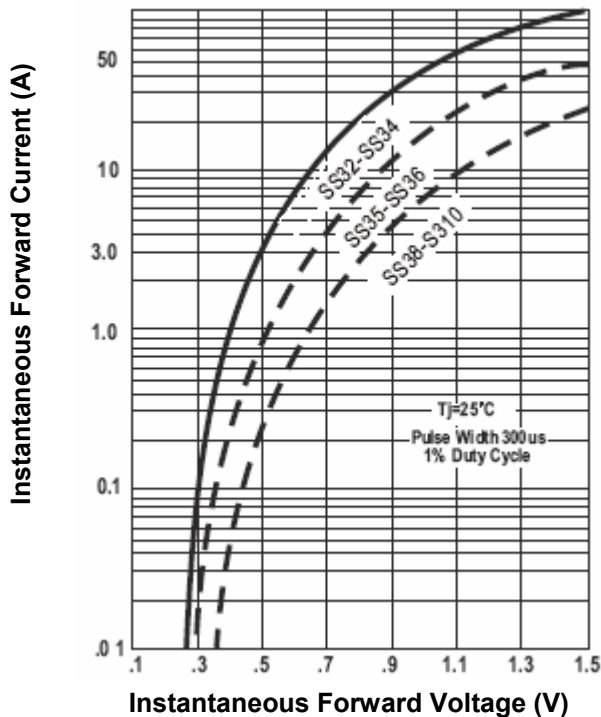
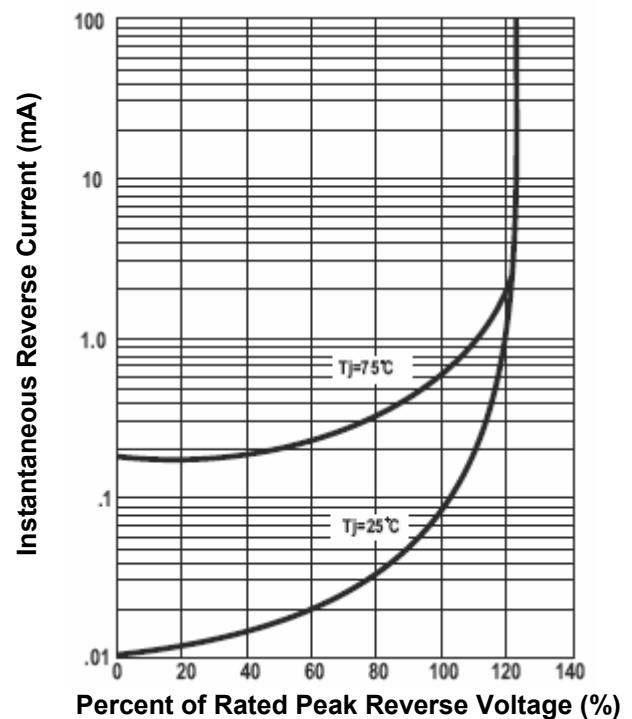


Fig.4- Typical Reverse Current Characteristics

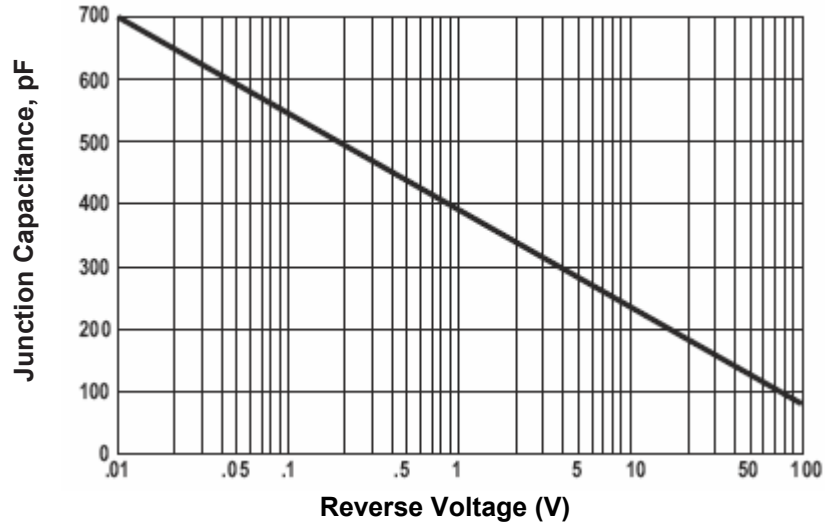


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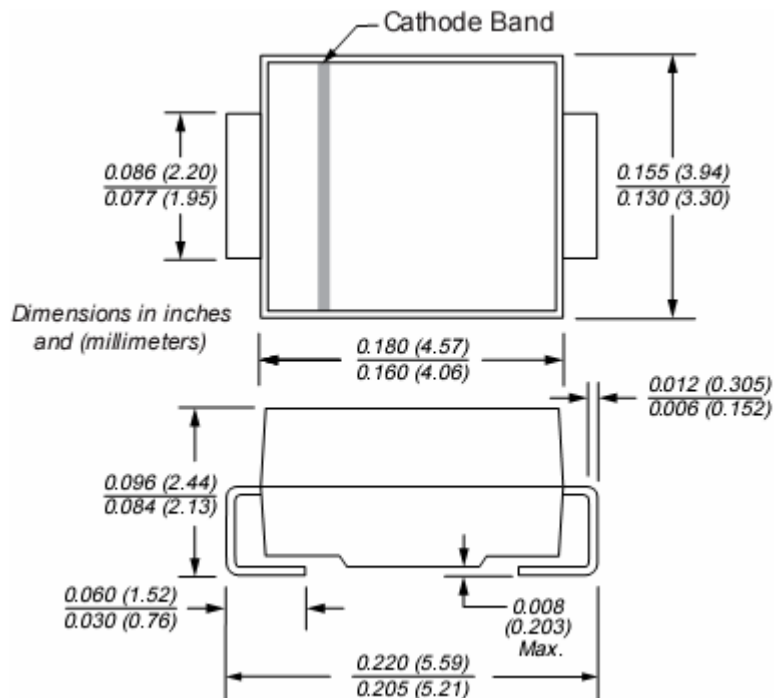
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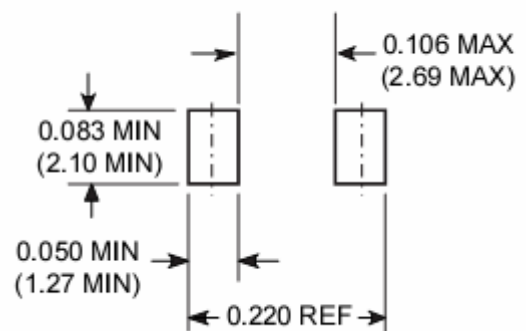
Fig.5-Typical junction capacitance



Dimensions in inches (mm)



Mounting Pad Layout



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