

Surface Mount Schottky Barrier Rectifier

Features

- Low Profile in SMA Package
- Low power loss, high efficiency
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications



SMA

Mechanical Data

Case:	SMA Package, Molded plastic body
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity	Color band denotes the cathode end

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

Symbols	Description	SS22A	SS23A	SS24A	SS25A	SS26A	Unit
VRMS	Maximum RMS voltage	14	21	28	35	42	V
VRRM	Maximum repetitive peak reverse voltage	20	30	40	50	60	V
VDC	Maximum DC blocking voltage	20	30	40	50	60	V
I(AV)	Maximum average forward rectified current at T _L (SEE FIG.1)	2.0					A
IFSM	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	50.0					A
RθJA RθJL	Maximum thermal resistance (NOTE 2)	75 17					°C/W °C/W
TJ	Operating junction temperature range	-65 to +125			-65 to +150		° C
TSTG	Storage Temperature Range	-65 to +150					° C

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

Symbols	Description	SS22A	SS23A	SS24A	SS25A	SS26A	Unit
VF	Maximum instantaneous forward voltage at 2.0A (NOTE 1)	0.50			0.70		V
IR	Maximum DC reverse current (NOTE 1) $T_A = 25^{\circ}\text{C}$ at rated DC blocking voltage $T_A = 100^{\circ}\text{C}$	0.4 10.0					mA

NOTES:

- (1) Pulse test: 300us pulse width, 1% duty cycle
- (2) P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

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SS22A - SS26A

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

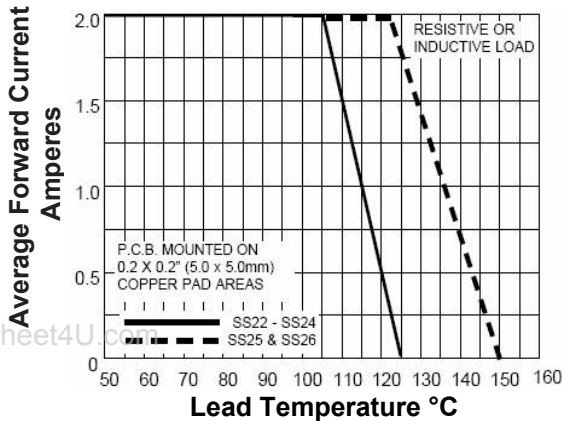


Fig.2- Maximum Non-repetitive Peak Forward Surge Current

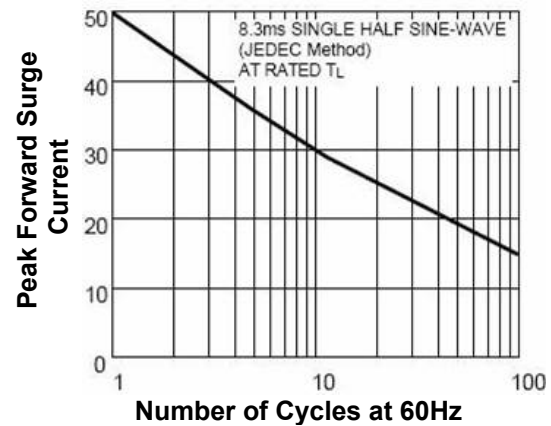


Fig.3- Typical Instantaneous Forward Characteristics

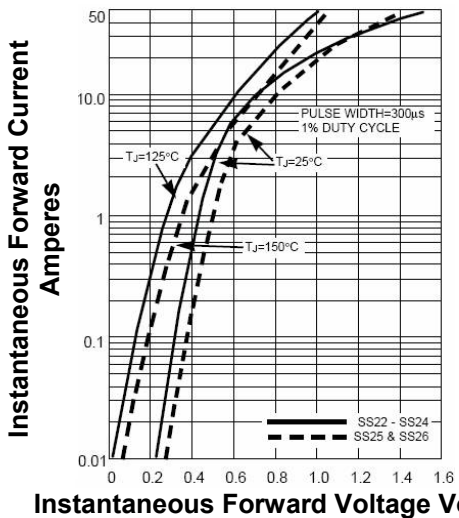


Fig.4- Typical Reverse Current Characteristics

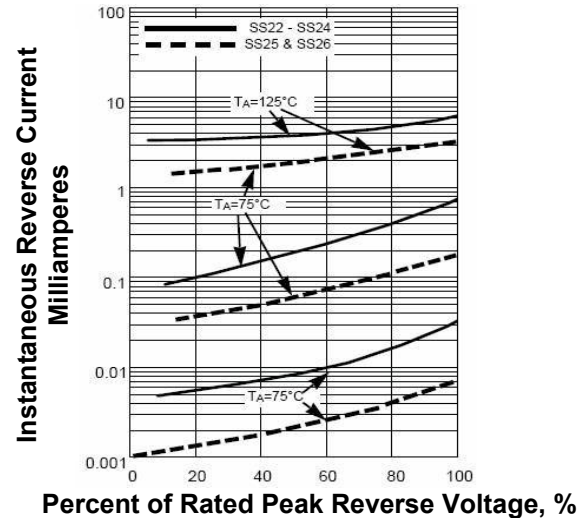
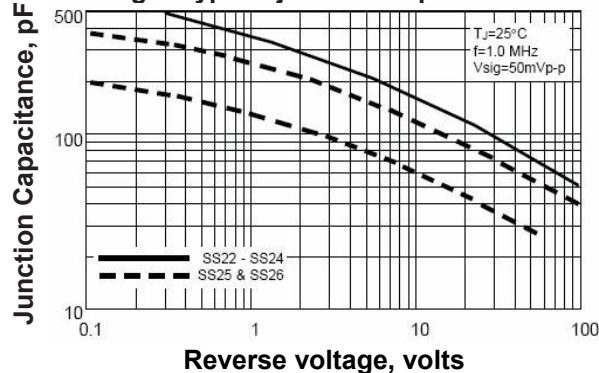


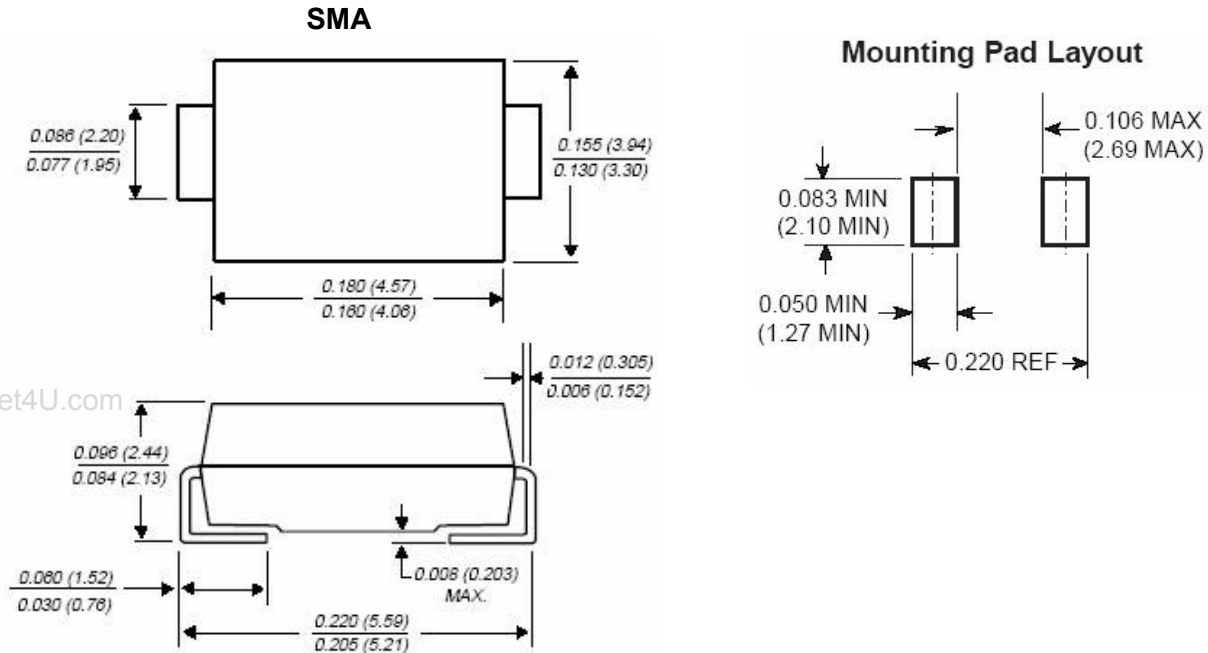
Fig.5- Typical junction capacitance



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SS22A - SS26A

Dimensions in inches (mm)



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