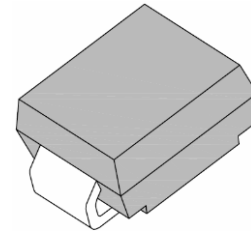


2.0A Surface Mount Schottky Rectifier

Features

- For surface mount applications
- Metal-Semiconductor Junction with Guarding
- Epitaxial Construction
- Very low forward voltage drop
- High current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 250° C/10 seconds at terminals



SMB
(DO-214AA)

Mechanical Data

Case:	JEDEC DO-214AA, Molded plastic body
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity	Color band denotes the cathode end
Weight:	0.003 ounce, 0.093 gram

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

Symbols	Description	SS22	SS23	SS24	SS25	SS26	SS29	SS210	Unit	Conditions
	Device Marking Code	S2/SS22	S3/SS23	S4/SS24	S5/SS25	S6/SS26	S9/SS29	S10/SS210		
VRRM	Maximum Repetitive Peak Reverse Voltage	20	30	40	50	60	90	100	V	
VRMS	Maximum RMS Voltage	14	21	28	35	42	63	70	V	
VDC	Maximum DC Blocking Voltage	20	30	40	50	60	90	100	V	
IF(AV)	Maximum Average Forward Rectified Current (FIG.1)	2.0							A	TL=105° C
IFSM	Peak Forward Surge Current	50							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
VF	Maximum Instantaneous Forward Voltage at 2.0A DC	0.50			0.70		0.79		V	
IR	Maximum DC Reverse Current at Rated DC Blocking Voltage (Note 1)	0.5							mA	TA=25 °C
		15								TA=100 °C

2.0A Surface Mount Schottky Rectifier

SS22 - SS210

Symbols	Description	SS22	SS23	SS24	SS25	SS26	SS29	SS210	Unit	Conditions
C_J	Typical Junction Capacitance (Note 1)	75							pF	
R_{θJL}	Maximum Thermal Resistance Junction to Lead	15							°C/W	
T_J	Operating Junction Temperature Range	-55 to +125							°C	
T_{STG}	Storage Temperature Range	-55 to +150							°C	

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

Typical Characteristics Curves

Fig.1- Forward Current Derating Curve

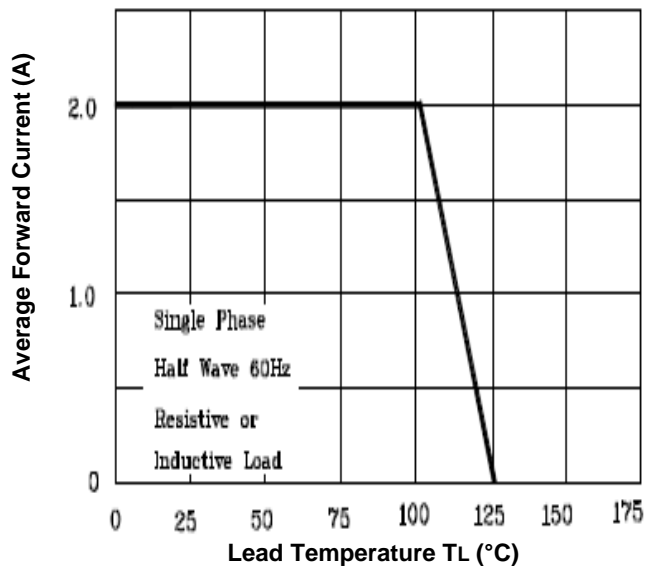
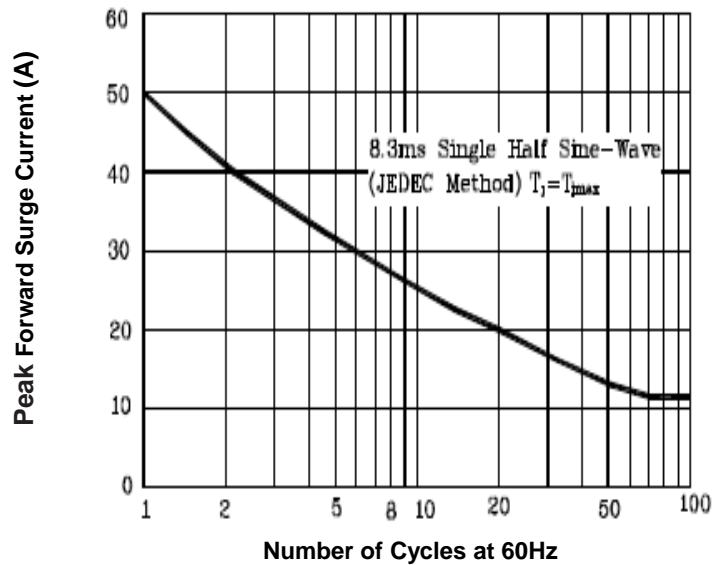


Fig.2- Max. Non-Repetitive Forward Surge Current



2.0A Surface Mount Schottky Rectifier

SS22 - SS210

Fig.3- Typical Instantaneous Forward Characteristics

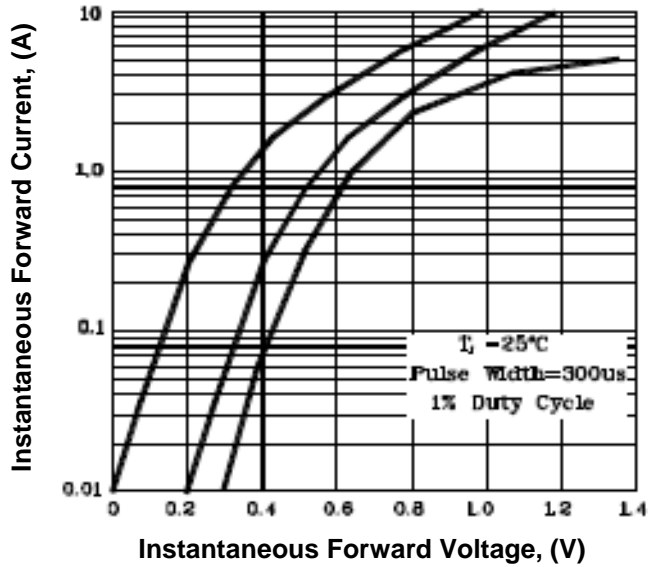


Fig.4- Typical Reverse Characteristics

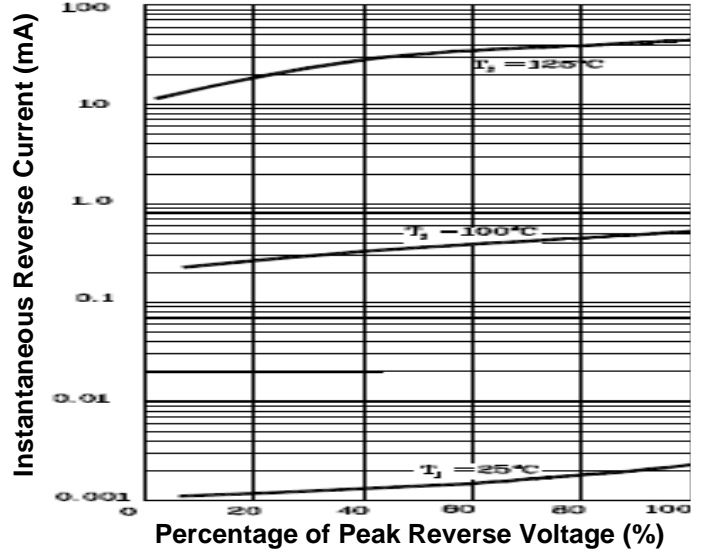
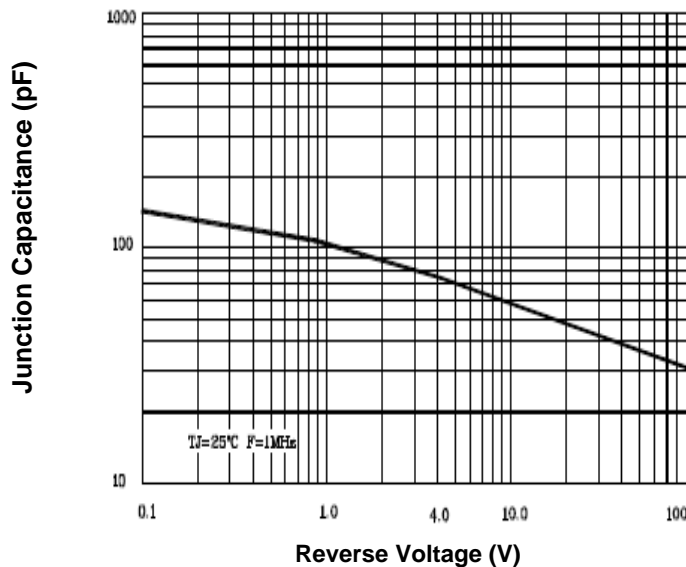


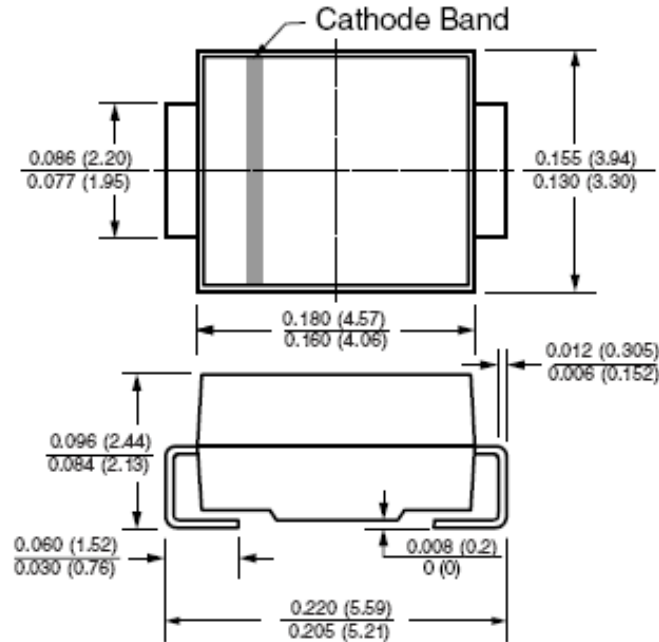
Fig.5- Typical Junction Capacitance



2.0A Surface Mount Schottky Rectifier

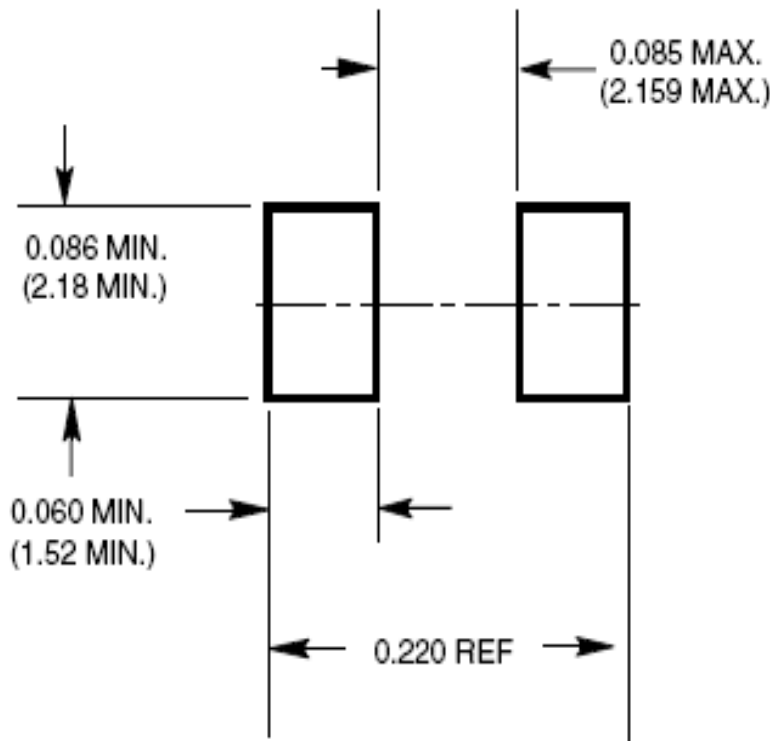
SS22 - SS210

Dimensions in inches (mm)



SMB
DO214AA

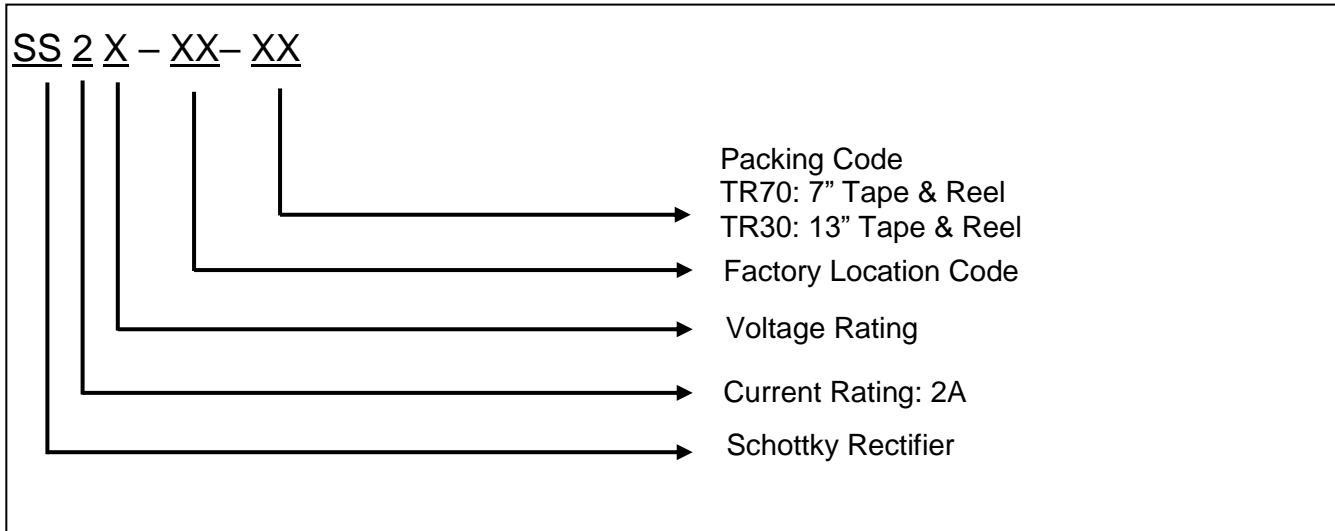
Mounting Pad Layout in inches (mm)



2.0A Surface Mount Schottky Rectifier

SS22 - SS210

Ordering Information



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