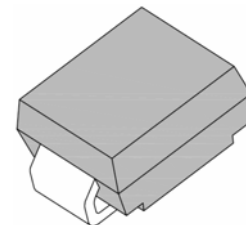


2.0A Surface Mount Schottky Rectifier

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
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High temperature soldering guaranteed: 250° C/10 seconds at terminals
- RoHS compliant



**SMB
(DO-214AA)**



Mechanical Data

Case:	JEDEC DO-214AA, Molded plastic body
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	S3	S4	S5	S6	S9	S10		
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	
I(AV)	Maximum Average Forward Rectified Current (FIG.1)	2.0							A	$T_L=105^{\circ}C$
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	$T_A=25^{\circ}C$
		15								$T_A=100^{\circ}C$

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

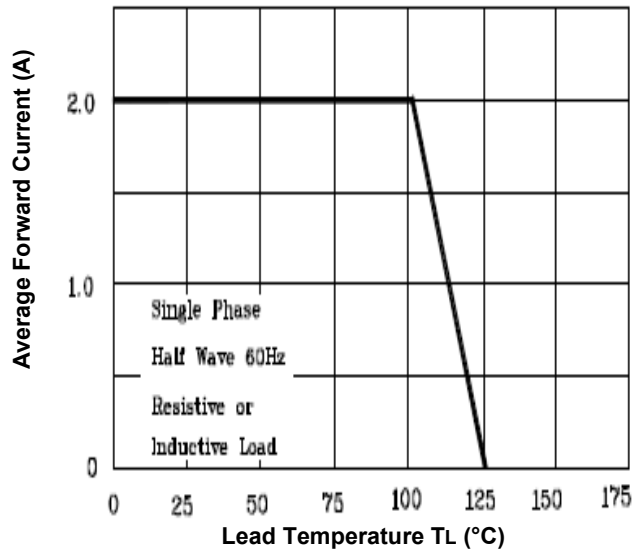
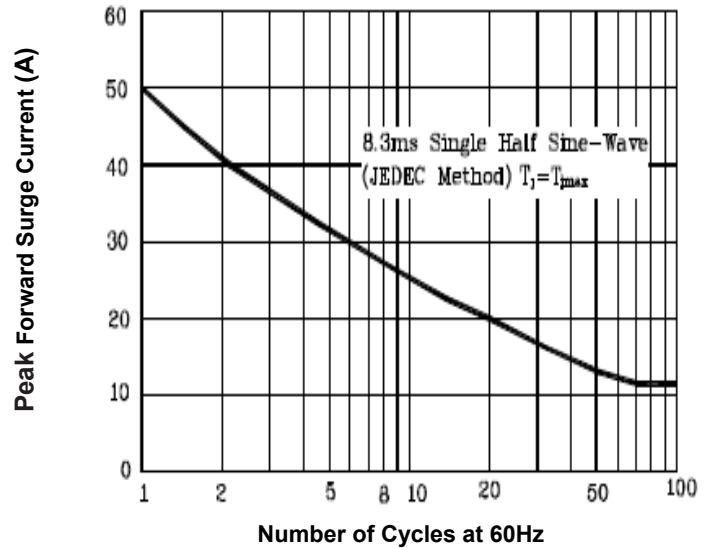


Fig.2- Max. Non-Repetitive Forward Surge Current



2.0A Surface Mount Schottky Rectifier

SS22 - SS210

Fig.3- Typical Instantaneous Forward Characteristics

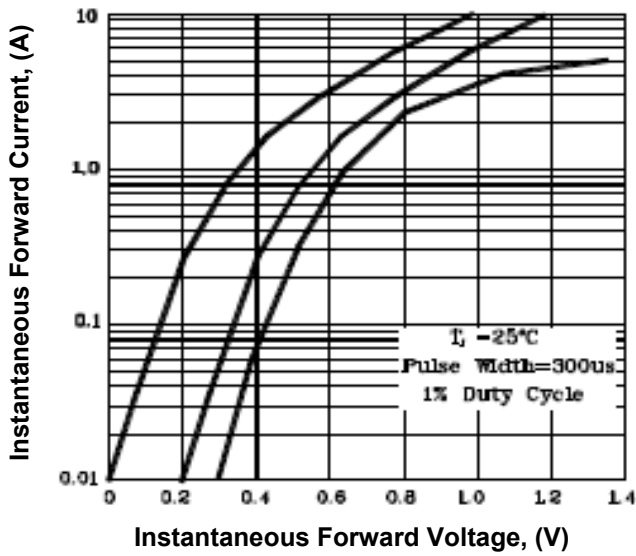


Fig.4- Typical Reverse Characteristics

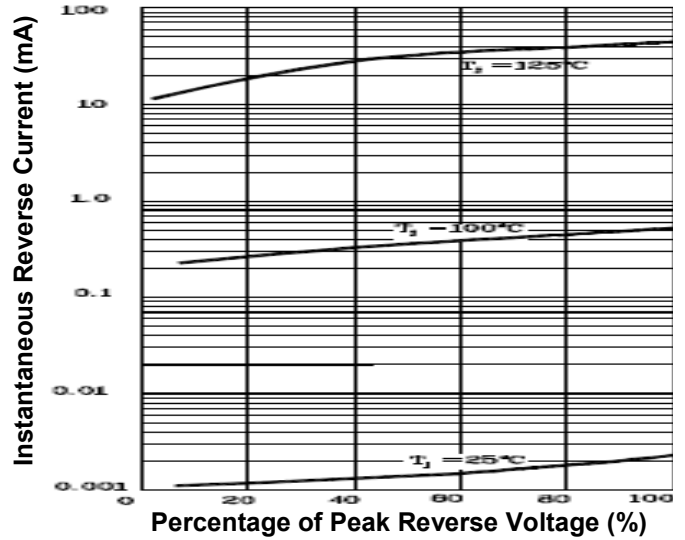
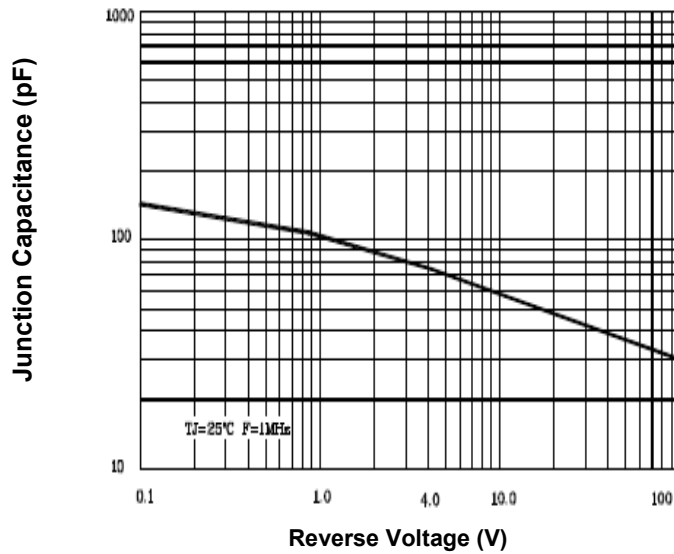


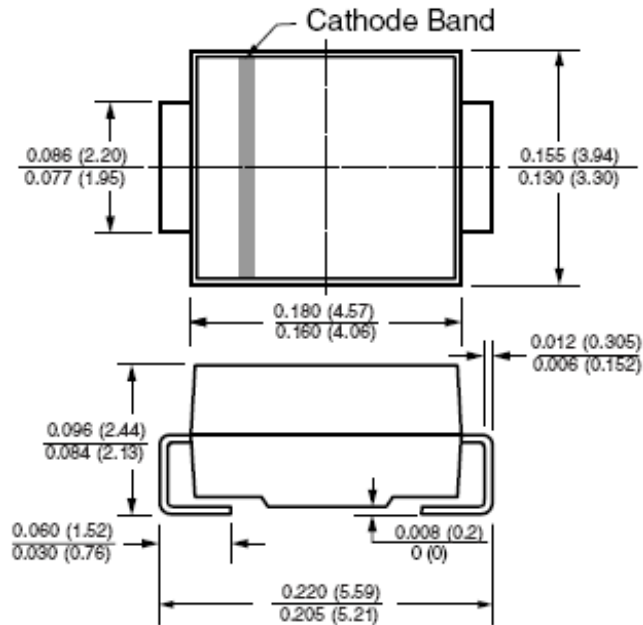
Fig.5- Typical Junction Capacitance



2.0A Surface Mount Schottky Rectifier

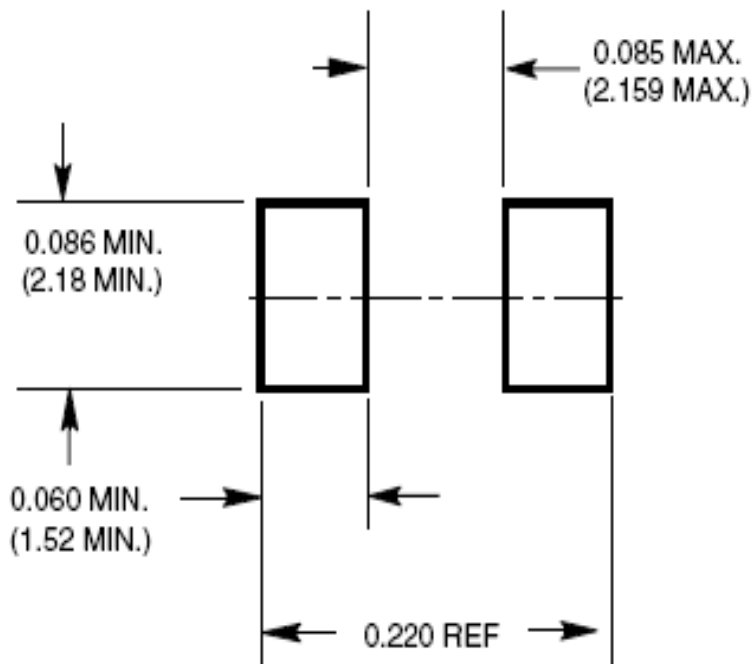
SS22 - SS210

Dimensions in inches (mm)



SMB
DO214AA

Mounting Pad Layout in inches (mm)



TAITRON
components incorporated

Rev. A/AH 2008-01-24

2.0A Surface Mount Schottky Rectifier

SS22 - SS210

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162

Tel: (800) TAITRON (800) 824-8766 (661) 257-6060

Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415

Email: taitron@taitroncomponents.com

Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P.

42970 MEXICO

Tel: +52-55-5560-1519

Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL

Tel: +55-11-5574-7949

Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA

Tel: +86-21-5424-9942

Fax: +86-21-5424-9931