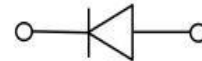


# SS22 THRU SS220

## Schottky Rectifier

### Features

- Low profile package
- Ideal for automated placement
- High efficiency operation
- Guard ring for enhanced ruggedness and long term reliability
- High purity,high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Meets MSL level 1, per J-STD-020,LF maximum peak of 260 °C



### Typical Application

For use in switching power supplies,converters, freewheeling diodes and reverse battery protection.

### Mechanical Data

- Package: DO-214AA(SMB)  
Molding compound meets UL 94 V-0 flammability rating,RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

### ■ Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SS 22	SS 23	SS 24	SS 25	SS 26	SS 28	SS 210	SS 215	SS 220
Repetitive Peak Reverse Voltage	$V_{RRM}$	V		20	30	40	50	60	80	100	150	200
Average Forward Current	$I_{F(AV)}$	A	60Hz Half-sine wave, Resistance load, $T_L=100^{\circ}C$	2.0								
Surge(Nonrepetitive)Forward Current	$I_{FSM}$	A	60HZ Half-sine wave, 1 cycle, $T_a=25^{\circ}C$	50								
Junction Temperature	$T_{stg}$	°C		-55 ~ +125				55 ~ +150				
Storage Temperature	$T_j$	°C		-55 ~ +150								

### ■ Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	Symbol	Unit	Conditions	SS 22	SS 23	SS 24	SS 25	SS 26	SS 28	SS 210	SS 215	SS 220	
Peak Forward Voltage	$V_{FM}$	V	$I_F = 2A$	0.5			0.7		0.85		0.9		
Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM}=V_{RRM}$	Ta=25°C				0.5		0.1			
	$I_{RRM2}$			Ta=100°C				10		5.0			
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/W	Between junction and ambient				75 <sup>1)</sup>						
	$R_{\theta J-L}$		Between junction and terminal				17 <sup>1)</sup>						

#### Notes:

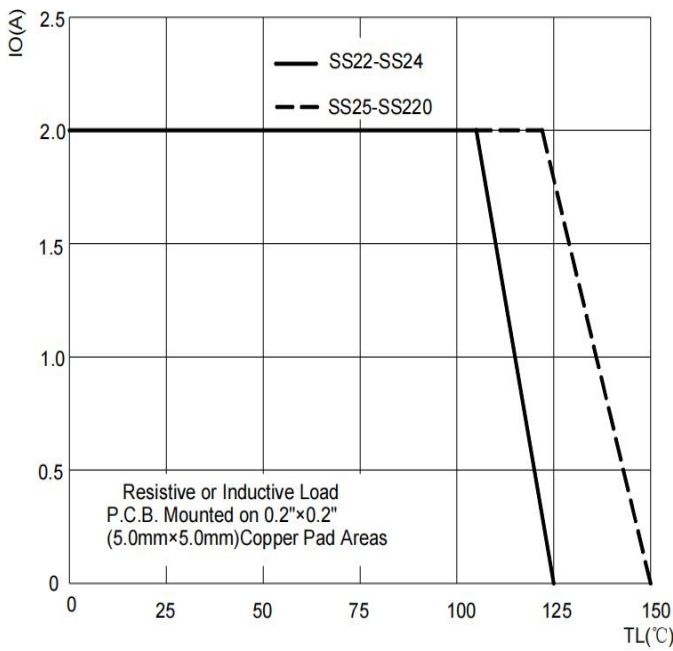
<sup>1)</sup>Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas



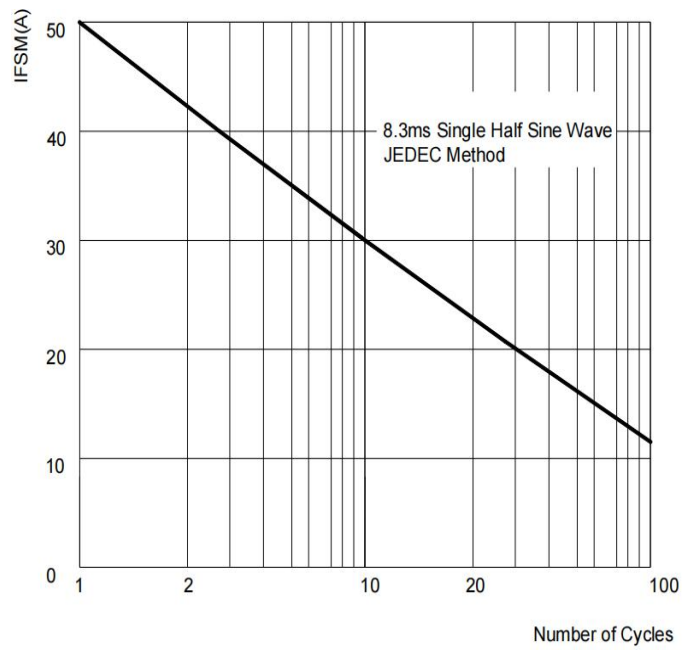
**SS22 THRU SS220**

■ Characteristics (Typical)

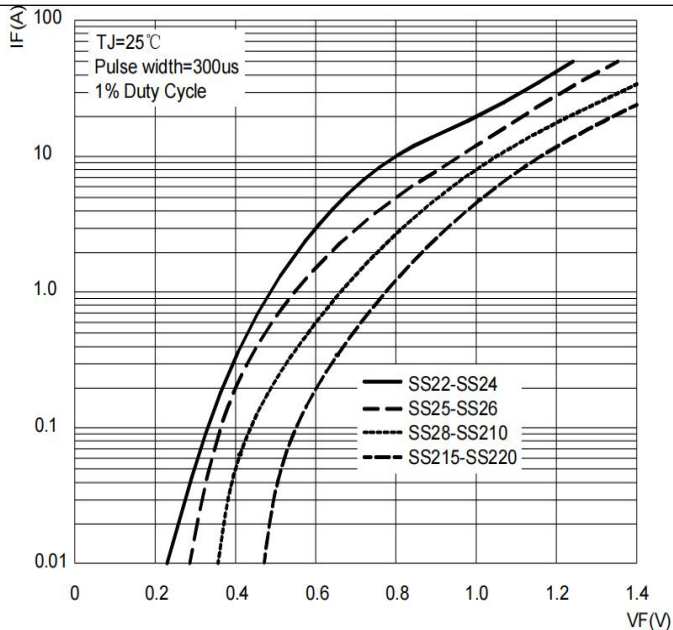
**FIG1: Forward Current Derating Curve**



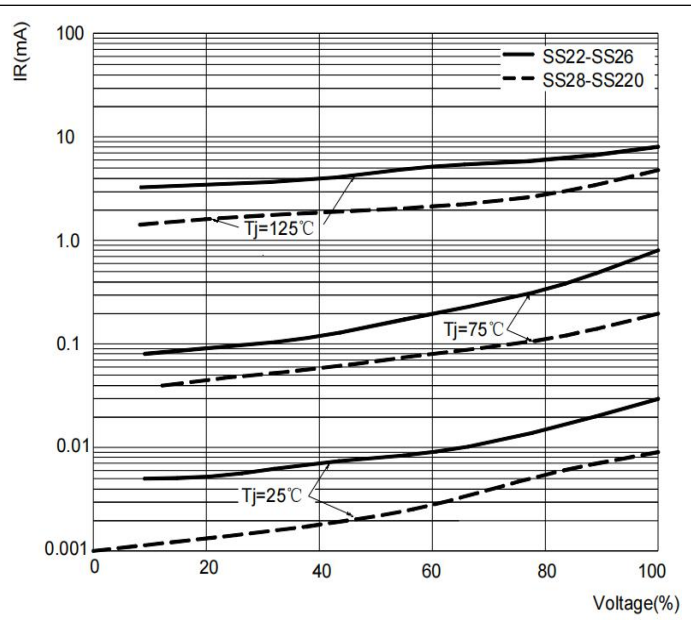
**FIG2: Maximum Non-Repetitive Forward Surge Current**



**FIG3: Typical Forward Characteristics**



**FIG4: Typical Reverse Characteristics**



## SS22 THRU SS220

### Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS22 ~ SS220	DO-214AA(SMB)	3000	6000	48000	13" reel

### Outline Dimensions

