

### Features

- Low power loss
- Guardring for overvoltage protection
- Extremely fast switching
- High frequency operation
- High forward surge capability
- Solder dip maximum peak of 275 °C /7s ,  
per JESD 22-B106



### Typical Application

For use in low voltage high frequency inverters, freewheeling, DC/DC converters, and polarity protection applications.

### Mechanical Data

- Package: DO-204AC(DO-15)  
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Color Band denotes cathode end

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

PARAMETER	Symbol	Unit	Conditions	SR2200
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	V		200



# SR2200

## Schottky Rectifier

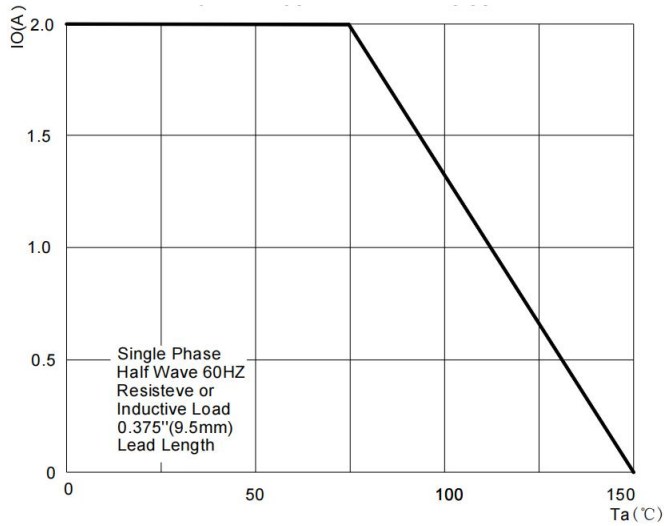
Average Rectified Output Current	$I_{F(AV)}$	A	60HZ Half-sine wave, Resistance load, $T_a=75^{\circ}\text{C}$	2.0
Surge(Nonrepetitive)Forward Current	$I_{FSM}$	A	60HZ sine wave, 1 cycle, $T_a=25^{\circ}\text{C}$	50
Storage Temperature	$T_{stg}$	$^{\circ}\text{C}$		-55 ~ +150
Junction Temperature	$T_j$	$^{\circ}\text{C}$		-55 ~ +150

### Electrical Characteristics ( $T_a=25^{\circ}\text{C}$ Unless otherwise specified )

PARAMETER	Symbol	Unit	Conditions	SR2200	
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=2.0\text{A}$	0.85	
Peak Reverse Current	$I_{RRM1}$	mA	$V_{RM}=V_{RRM}$	$T_a=25^{\circ}\text{C}$	0.2
	$I_{RRM2}$			$T_a=125^{\circ}\text{C}$	20
Thermal Resistance(Typical)	$R_{\theta J-A}$	$^{\circ}\text{C}/\text{W}$	Between junction and ambient	45	
Typical junction capacitance	$C_j$	pF	Measured at 1 MHz and Applied Reverse Voltage of 4.0 V.D.C	180	

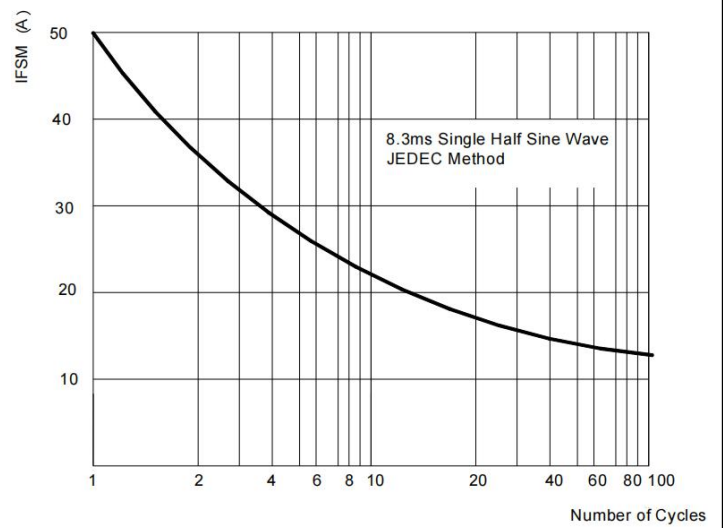
## ■ Characteristics ( Typical )

**FIG1: Forward Current Derating Curve**

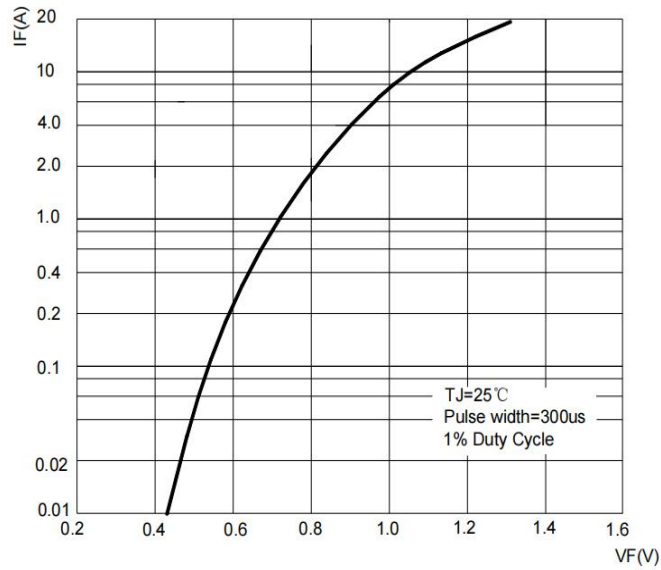


**FIG2: Maximum Non-Repetitive Forward Surge**

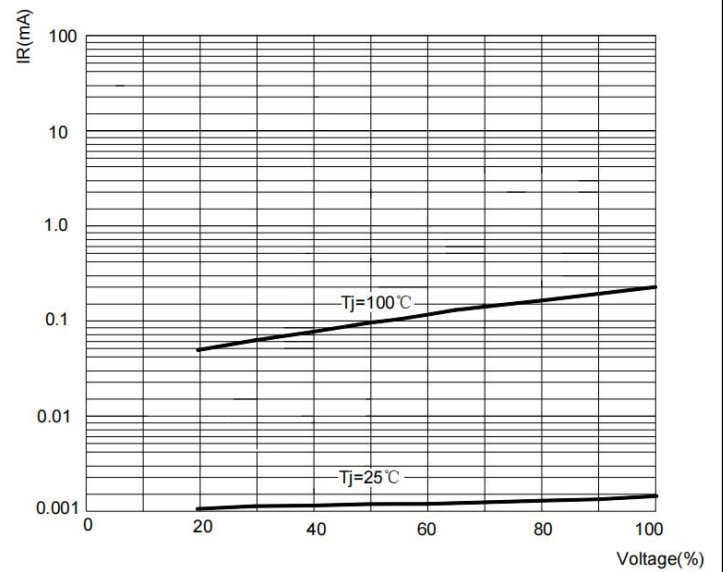
**Current**



**FIG3: Typical Forward Characteristics**



**FIG4: Typical Reverse Characteristics**

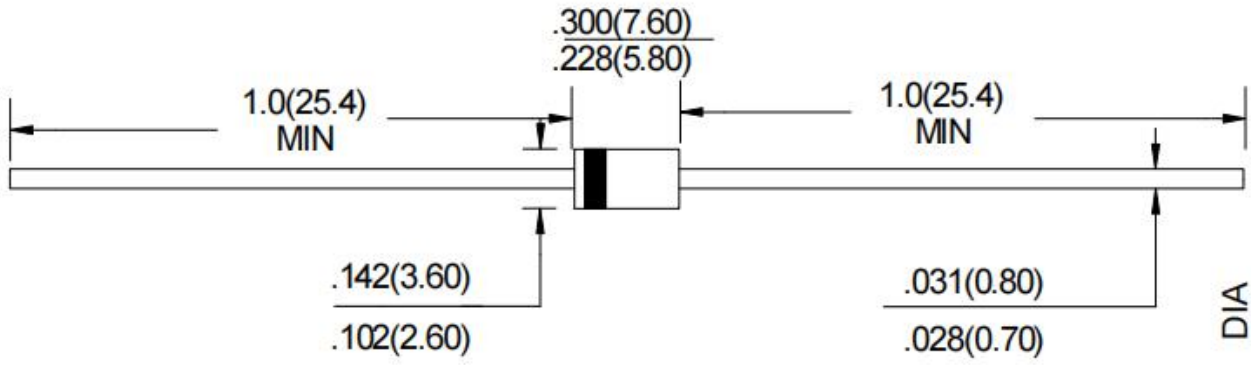


## ■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SR2200	DO-204AC(DO-15)	3000	3000	30000	Tape

## ■ Outline Dimensions

DO-204AC(DO -15 )



Unit: in inches (millimeters)

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