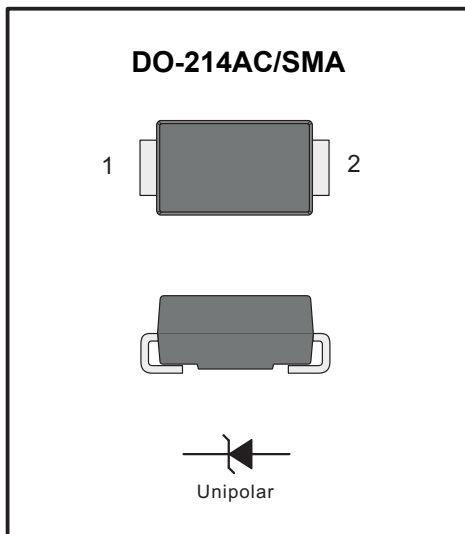


SS22 THRU SS2200

Reverse Voltage - 20 to 200 Volts Forward Current - 2.0 Ampere

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250 °C/10 seconds at terminals

Mechanical Data

- ◆ Case: JEDEC DO-214AC/SMA molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026
- ◆ Polarity: Color band denotes cathode end Mounting
- ◆ Position: Any
- ◆ Weight : 0.003 ounce, 0.093 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS2150	SS2200	UNITS	
Maximum repetitive peak reverse voltage	V_{RMM}	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current at TL (see fig. 1)	I_{AV}	2.0									A	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50									A	
Maximum instantaneous forward voltage at 2.0A	V_F	0.55		0.70		0.85		0.95			V	
Maximum DC reverse current $T_A=25^\circ\text{C}$ at rated DC blocking voltage $T_A=125^\circ\text{C}$	I_R	0.5						0.2			mA	
		10.0				5.0		2.0				
Typical junction capacitance (NOTE 1)	C_J	220			180						pF	
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	75.0									°C/W	
Operating junction temperature range	T_J	-50 to +125					-50 to +150					°C
Storage temperature range	T_{STG}	-50 to +150									°C	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

SS22 THRU SS2200

Reverse Voltage - 20 to 200 Volts Forward Current - 2.0 Ampere

Fig.1 Forward Current Derating Curve

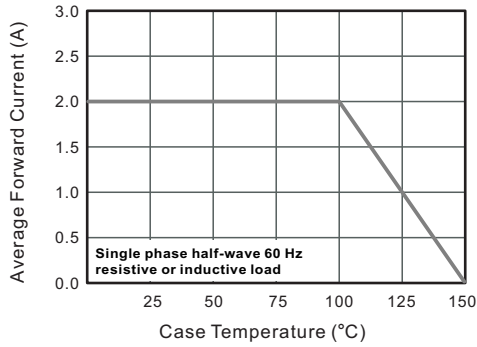


Fig.2 Typical Reverse Characteristics

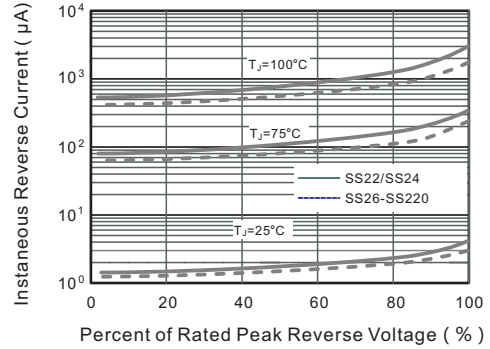


Fig.3 Typical Forward Characteristic

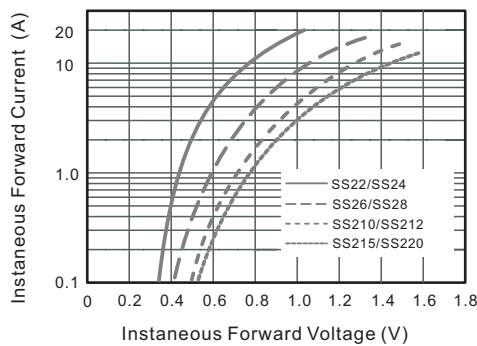


Fig.4 Typical Junction Capacitance

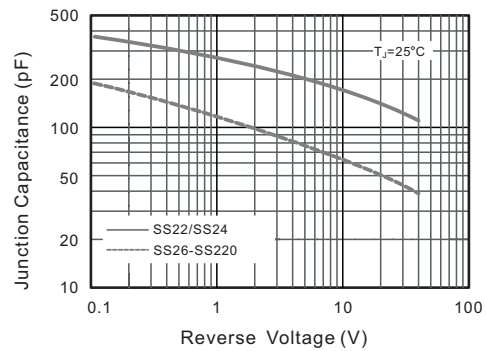


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

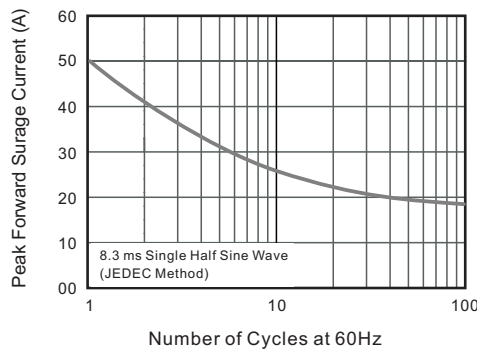
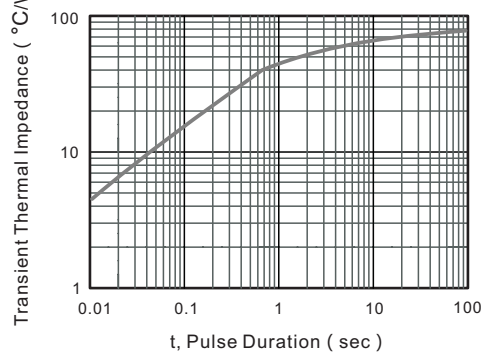


Fig.6- Typical Transient Thermal Impedance



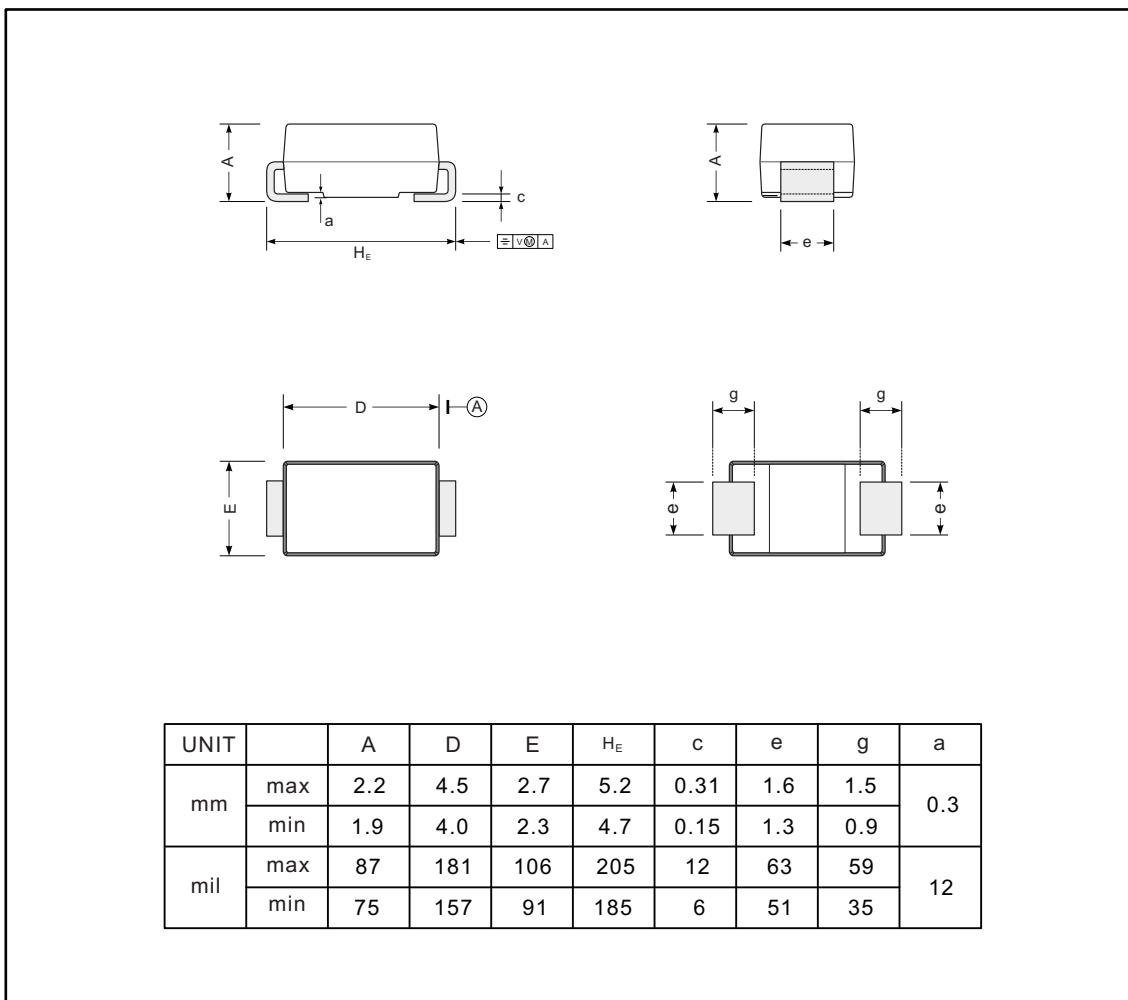
SS22 THRU SS2200

Reverse Voltage - 20 to 200 Volts Forward Current - 2.0 Ampere

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size

