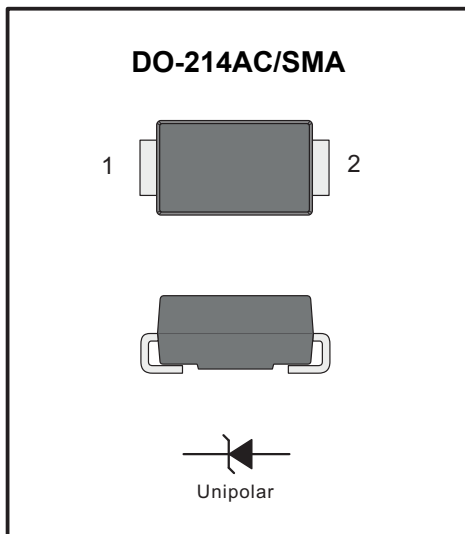


## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### 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

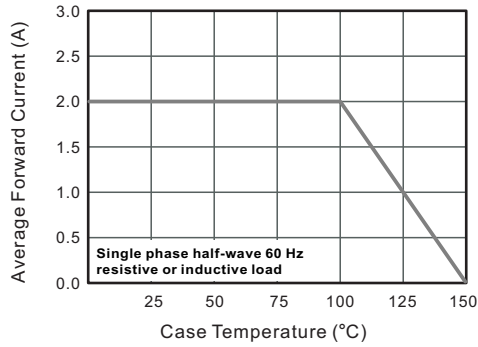
Ratings at 25°C ambient temperature unless otherwise specified.

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

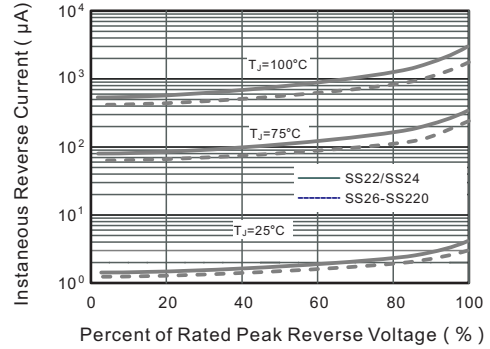
Parameter	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS2150	SS2200	UNITS	
Maximum repetitive peak reverse voltage	$V_{RMM}$	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	$V_{RMS}$	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	$V_{DC}$	20	30	40	50	60	80	100	150	200	V	
Maximum average 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

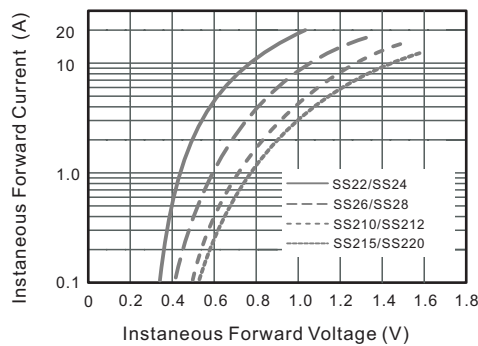
**Fig.1 Forward Current Derating Curve**



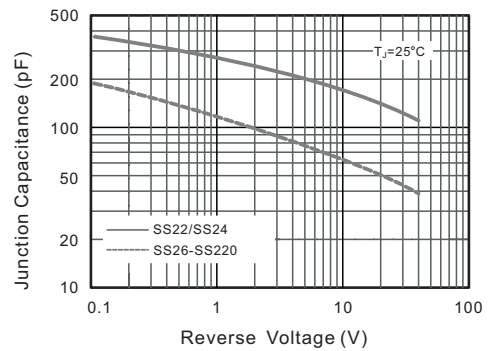
**Fig.2 Typical Reverse Characteristics**



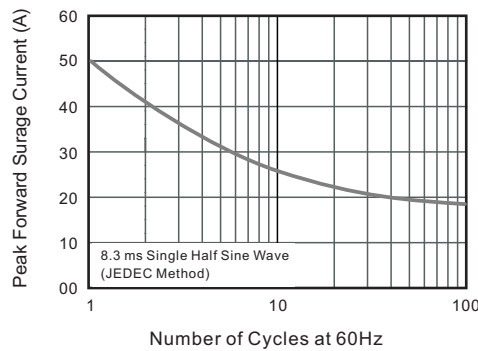
**Fig.3 Typical Forward Characteristic**



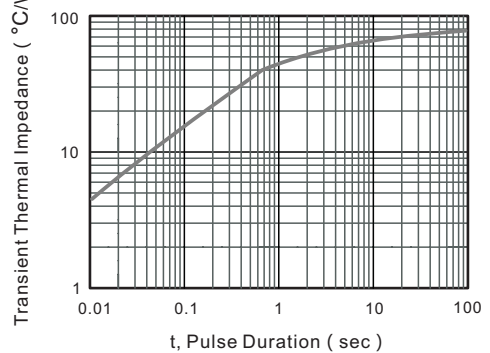
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**

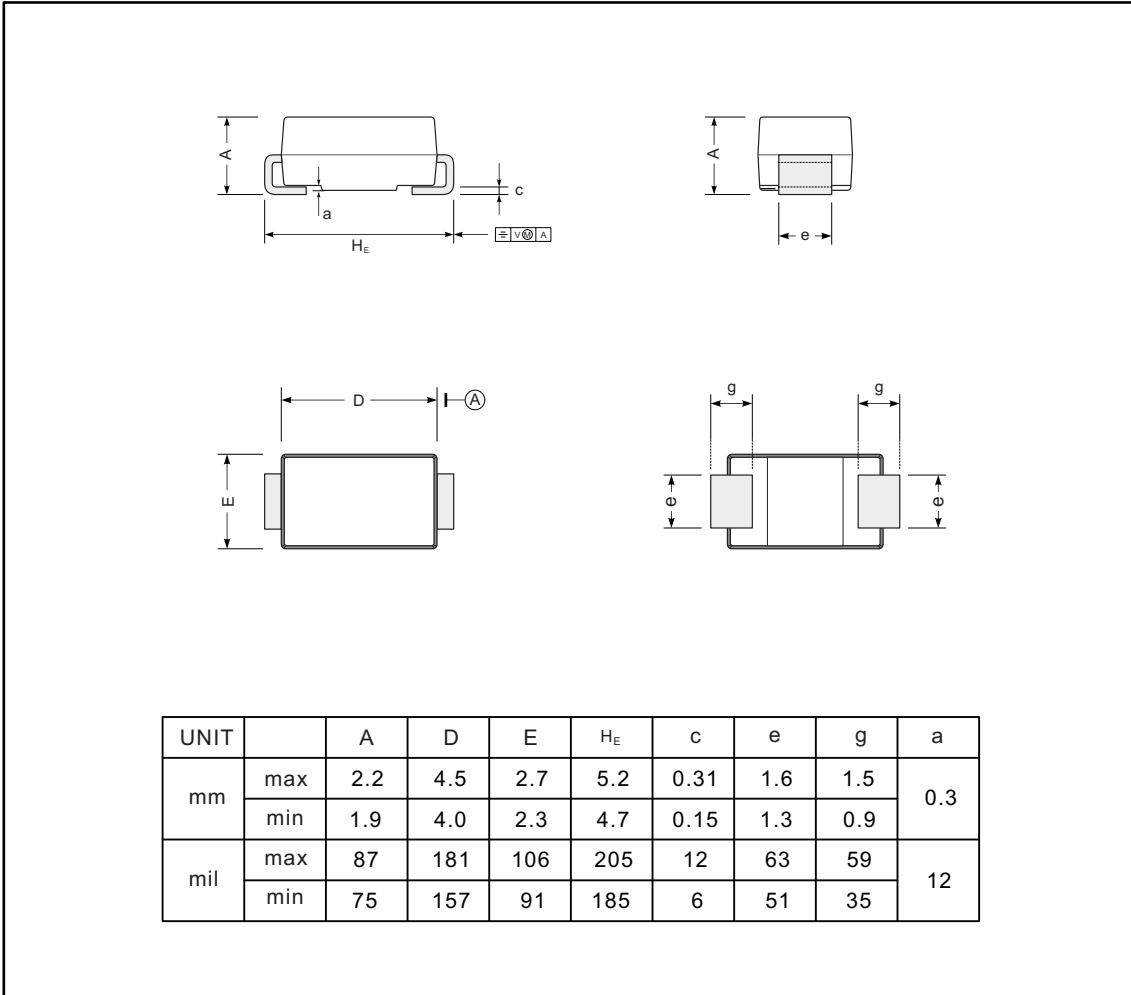


**Fig.6- Typical Transient Thermal Impedance**



## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads



### The recommended mounting pad size

