

## SS22 THRU SS220

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

**VOLTAGE**

**20 THRU 200Volts**

**CURRENT**

**2.0 Ampers**

**SMA(DO-214AC)**

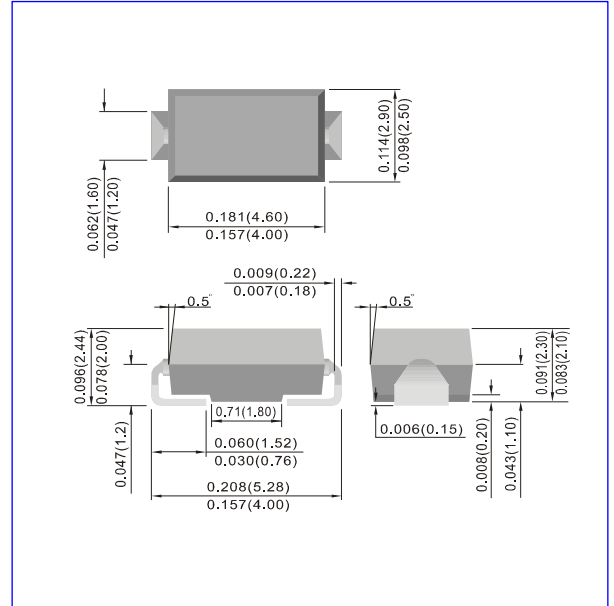
Unit:(mm)

#### FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop
- \* Both normal and Pb free product are available:
- \* Normal:80~95%Sn,5~20%Pb
- \* Pb free:99 Sn above can meet Rohs enviroment substance directive request

#### MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Metallurgically bonded construction
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.093 grams



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C(UNLESS OTHERWISE NOTED)

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

TYPE NUMBER	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	UNITS	
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	100	150	200	V	
Maximum RMS Voltage	14	21	28	35	42	56	70	105	140	V	
Maximum DC Blocking Voltage	20	30	40	50	60	80	100	150	200	V	
Maximum Average Forward Rectified Current	2.0									A	
See Fig.1											
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	50									A	
Maximum Instantaneous Forward Voltage at 2.0A	0.55		0.70			0.85		0.95		V	
Maximum DC Reverse Current Ta=25°C	500						200			µA	
at Rated DC Blocking Voltage Ta=100°C	10.0						5.0		2.0		mA
Typical Junction Capacitance (Note1)	220			180						pF	
Typical Thermal Resistance R JA (Note 2)	75									°C/W	
Operating Temperature Range Tj	-65 — +125					-65 — +150					°C
Storage Temperature Range Tstg	-65 — +150									°C	

**NOTES:**

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Ambient.

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#### RATING AND CHARACTERISTIC CURVES

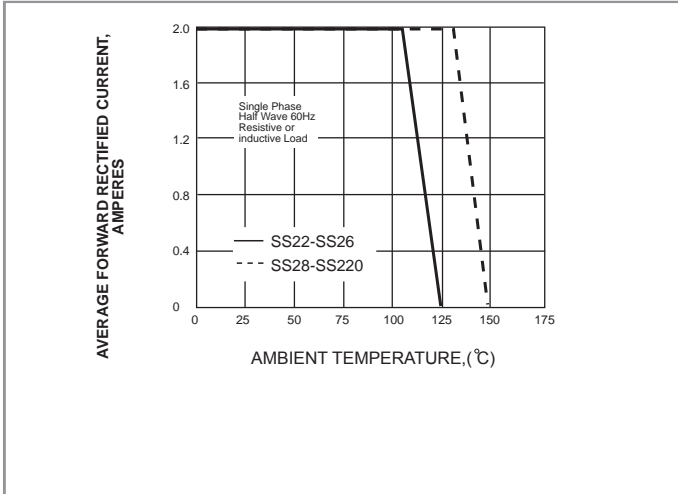


Fig. 1 FORWARD CURRENT DERATING CURVE

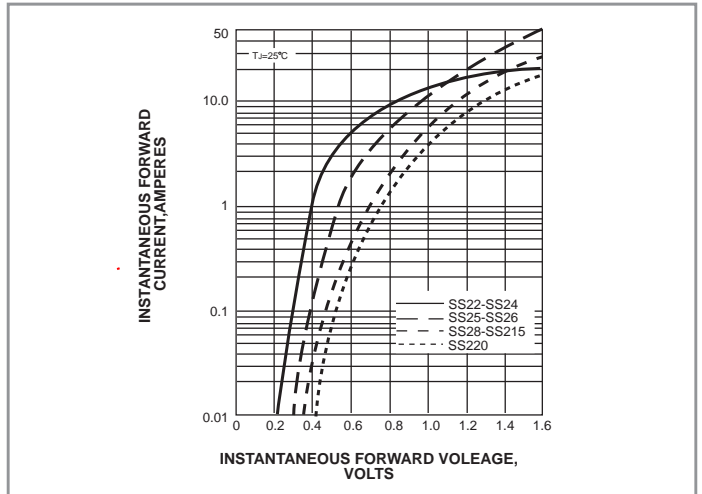


Fig. 2 TYPICAL INSTANTANEOUS FORWARD

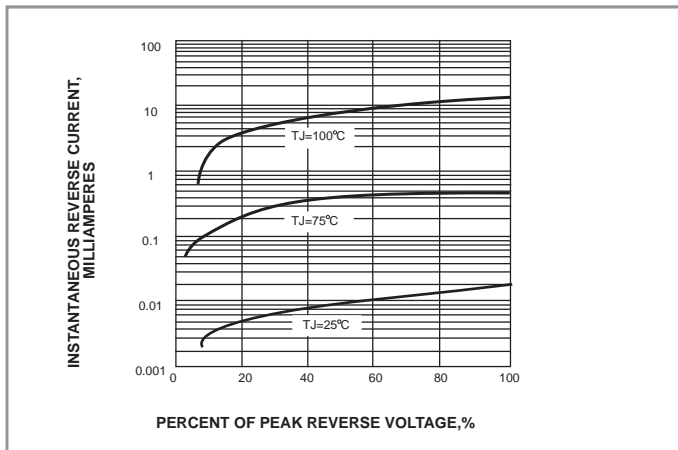


Fig. 3 TYPICAL REVERSE CHARACTERISTICS

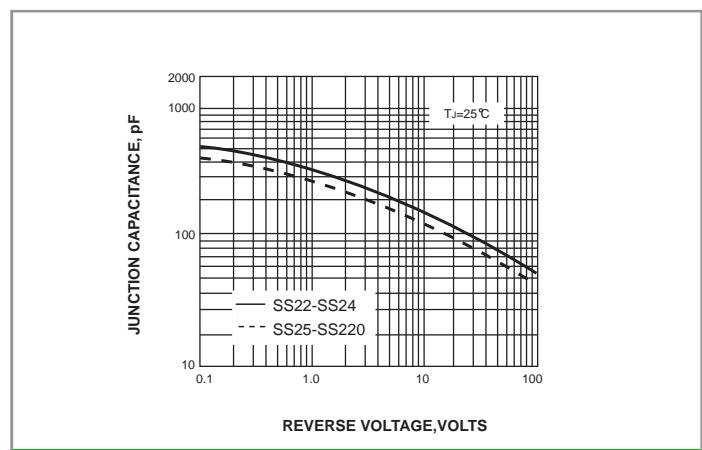


Fig. 4 TYPICAL JUNCTION CAPACITANCE

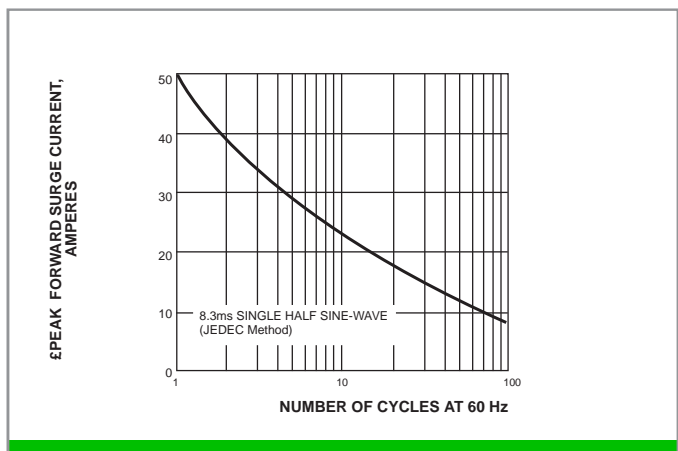


Fig. 5- MAXIMUM NON - REPETITIVE SURGE CURRENT

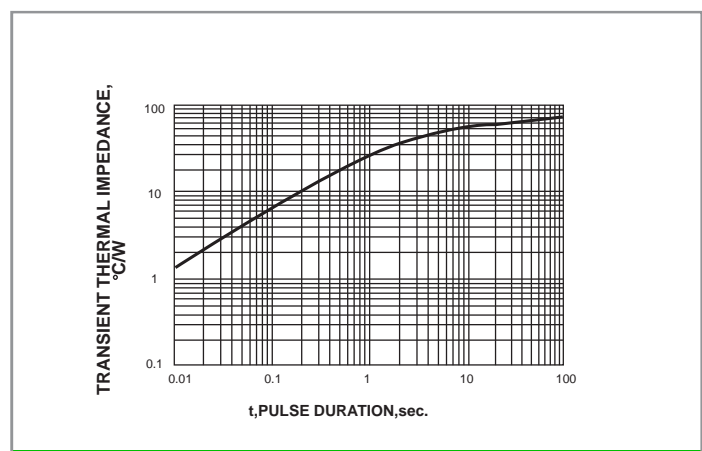


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

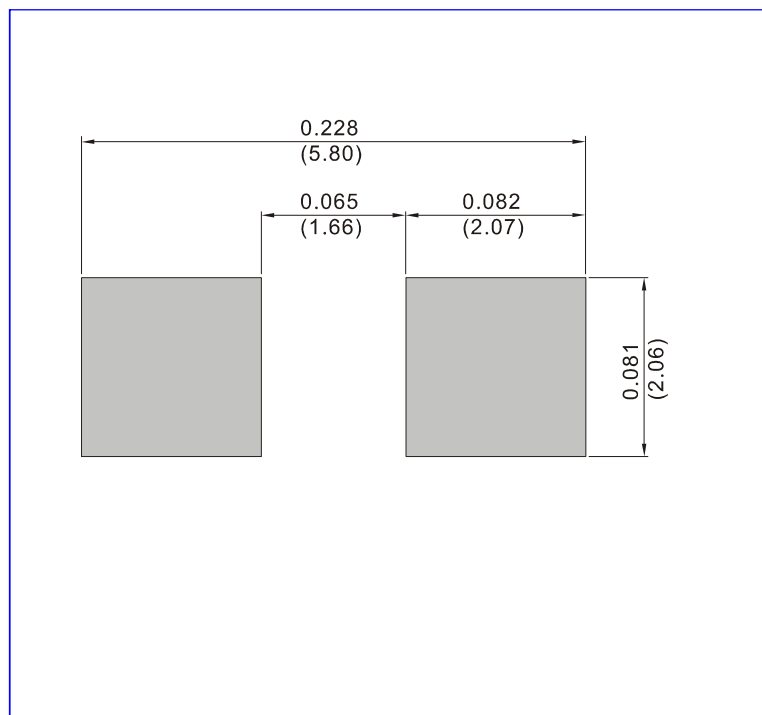
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**MOUNTING PAD LAYOUT**

SMA(DO-214AC)

Unit : inch(mm)



**ORDER INFORMATION**

- Packing information
  - T/R - 5K per 13" plastic Reel
  - T/R - 3K per 7" plastic Reel