

## SS22 THRU SS220

2.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



## FEATURES

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* Low forward voltage drop

## 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: 0.063 grams
- \* Both normal and Pb free product are available:
- \* Normal: 80~95%Sn, 5~20%Pb
- \* Pb free: 99Sn above can meet Rohs enviroments substance directive request

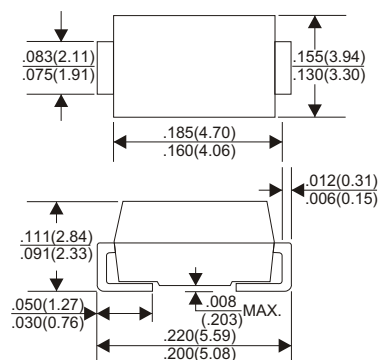
## VOLTAGE RANGE

20 to 200 Volts

## CURRENT

2.0 Ampere

## DO-214AA(SMB)



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwise specified.  
Single phase half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

TYPE NUMBER	SS22	SS23	SS24	SS26	SS28	SS210	SS215	SS220	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	60	80	100	150	200	V
Maximum RMS Voltage	14	21	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	20	30	40	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				V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta=25°C				0.5				mA
	Ta=100°C				20				mA
Typical Junction Capacitance (Note1)					170				pF
Typical Thermal Resistance R <sub>JA</sub> (Note 2)					70				°C/W
Operating Temperature Range T <sub>J</sub>	-65 — +125				-65 — +150				°C
Storage Temperature Range T <sub>STG</sub>	-65 — +150								°C

## NOTES:

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

## RATING AND CHARACTERISTIC CURVES (SS22 THRU SS220)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

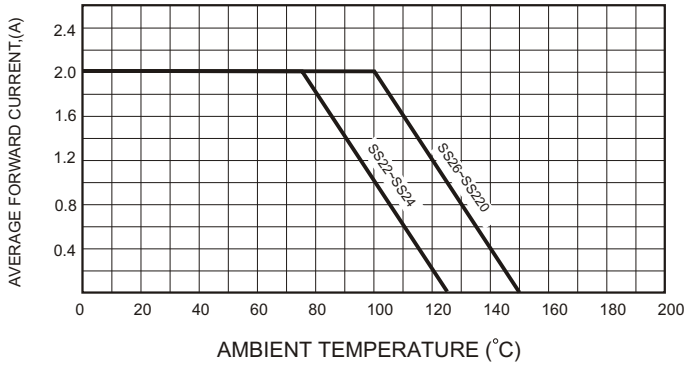


FIG.2-TYPICAL FORWARD CHARACTERISTICS

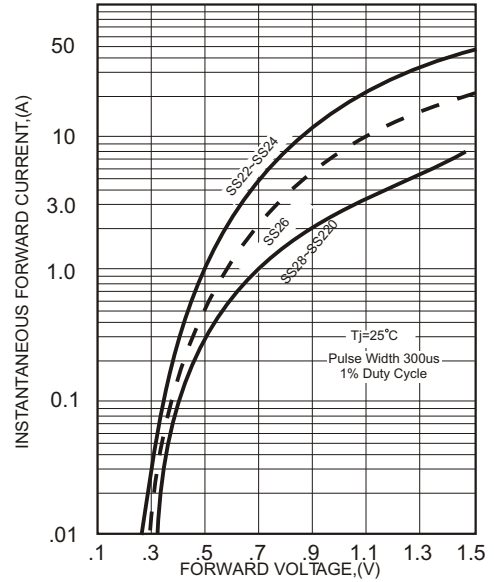


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

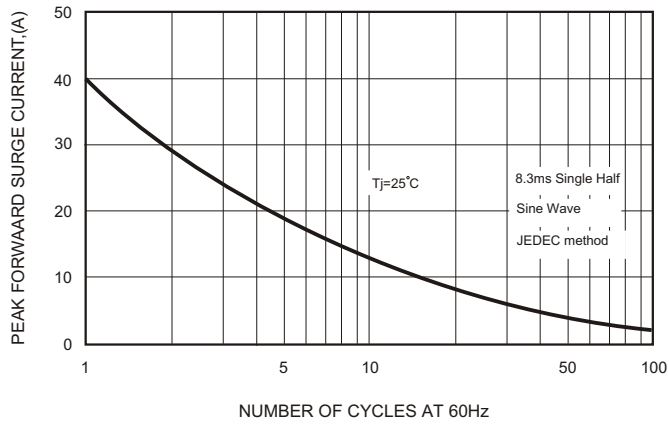


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

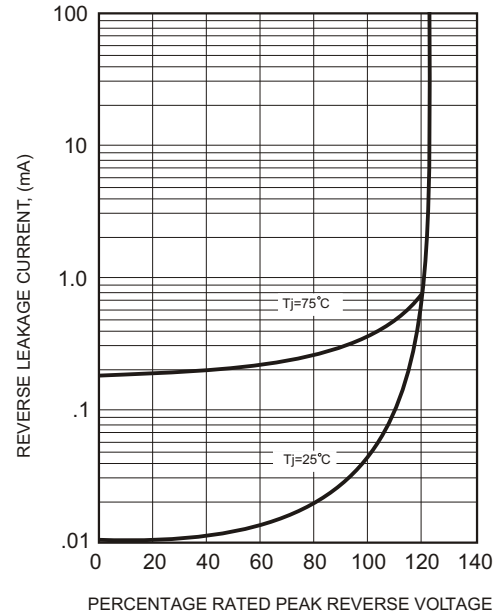


FIG.4-TYPICAL JUNCTION CAPACITANCE

