

## VOLTAGE RANGE

20 to 100 Volts

## CURRENT

2.0 Ampere

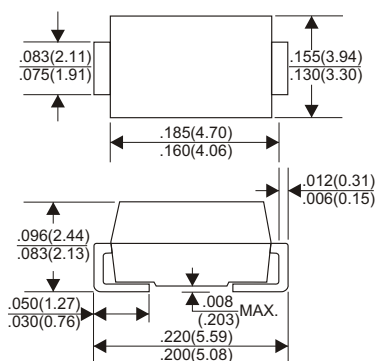
## FEATURES

- \* 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: 0.093 grams

**DO-214AA(SMB)**



Dimensions in inches and (millimeters)

## 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	SS22B	SS23B	SS24B	SS25B	SS26B	SS28B	SS29	SS210B	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current See Fig. 1	2.0								A
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 Ta=25°C	0.1					0.02			mA
at Rated DC Blocking Voltage Ta=100°C	5					2			mA
Typical Junction Capacitance (Note1)	170								pF
Typical Thermal Resistance R JA (Note 2)	75								C/W
Operating Temperature Range Tj	-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.

SYMBOLS	SS 22B	SS 23B	SS 24B	SS 25B	SS 26B	SS 28B	SS 29B	SS 210B
MARKING	SS22	SS23	SS24	SS25	SS26	SS28	SS29	SS210

**RATING AND CHARACTERISTIC CURVES (SS22B THRU SS210B)**

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

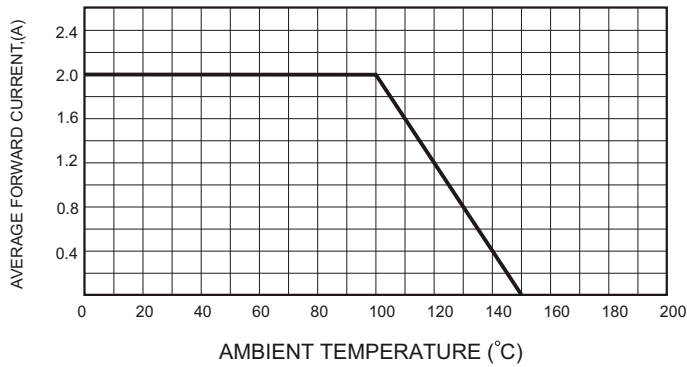


FIG.2-TYPICAL FORWARD  
CHARACTERISTICS

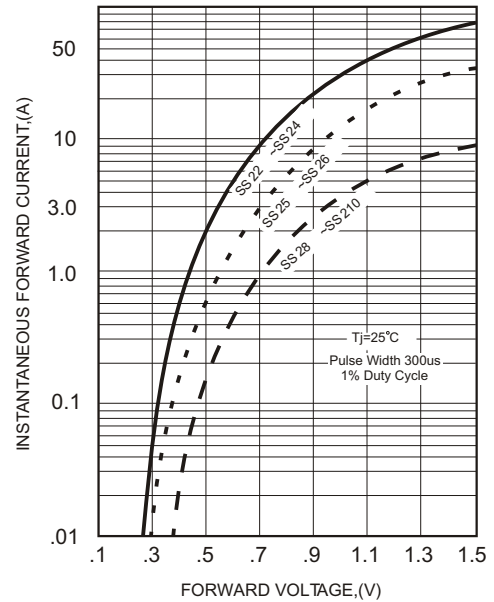


FIG.3-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

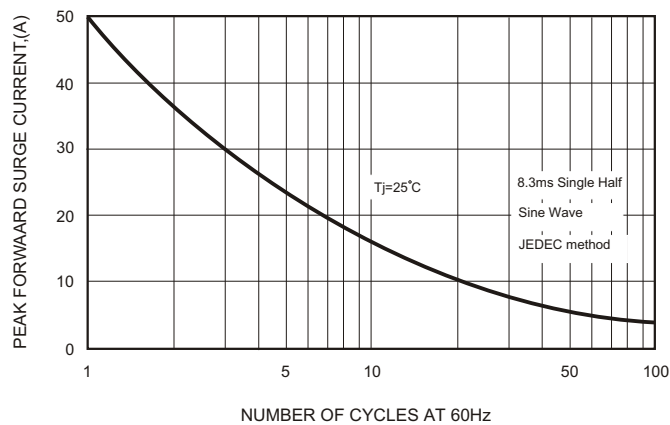


FIG.5 - TYPICAL REVERSE  
CHARACTERISTICS

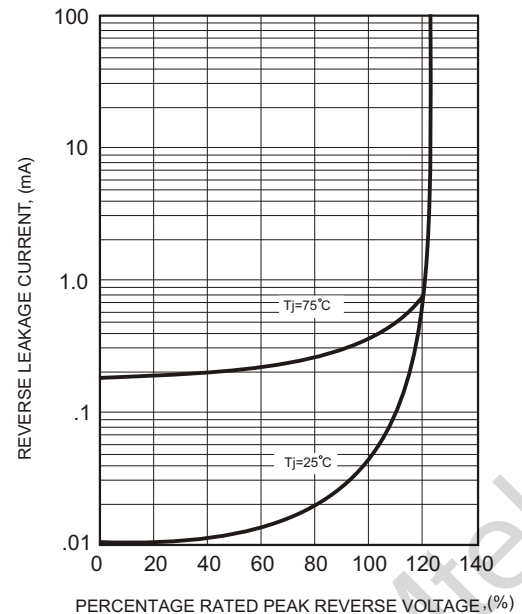
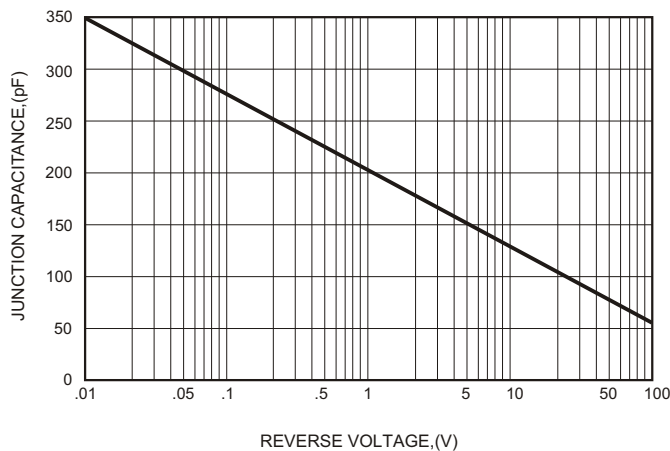


FIG.4-TYPICAL JUNCTION CAPACITANCE



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