

### 1.0 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

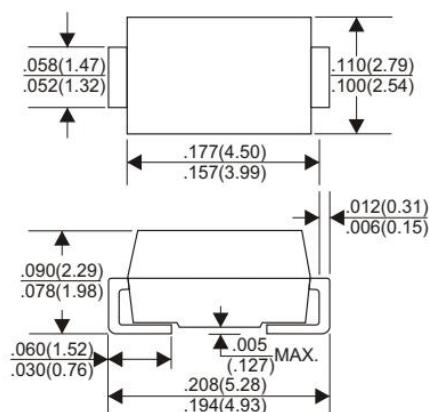
#### VOLTAGE RANGE

20 to 100 Volts

#### CURRENT

1.0 Ampere

#### DO-214AC(SMA)



#### 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	SS12	SS13	SS14	SS15	SS16	SS18	SS19	SS110	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	1.0								A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	30								A
Maximum Instantaneous Forward Voltage at 1.0A	0.55			0.70		0.85			V
Maximum DC Reverse Current Ta=25 C	0.2								mA
at Rated DC Blocking Voltage Ta=100 C	10								mA
Typical Junction Capacitance (Note1)	110								pF C/
Typical Thermal Resistance R JA (Note 2)	50								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.

### RATING AND CHARACTERISTIC CURVES (SS12 THRU SS110)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

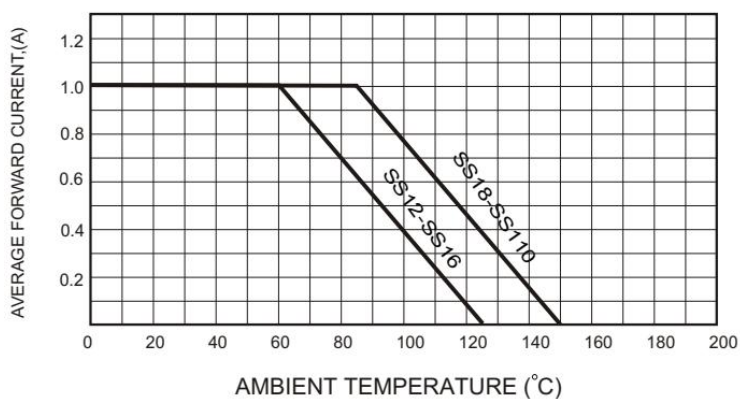


FIG.2-TYPICAL FORWARD CHARACTERISTICS

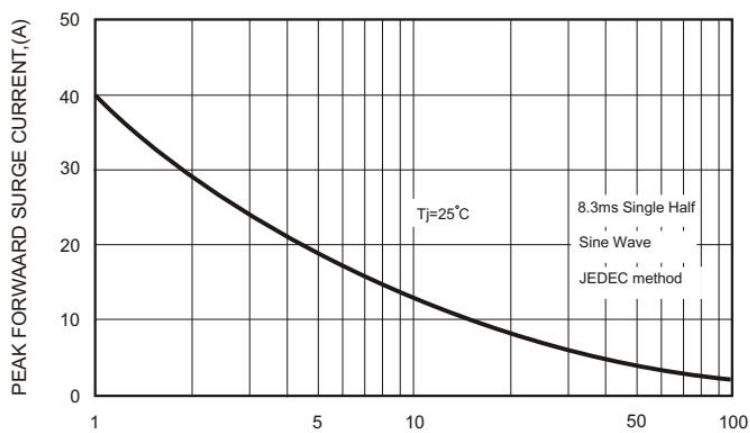
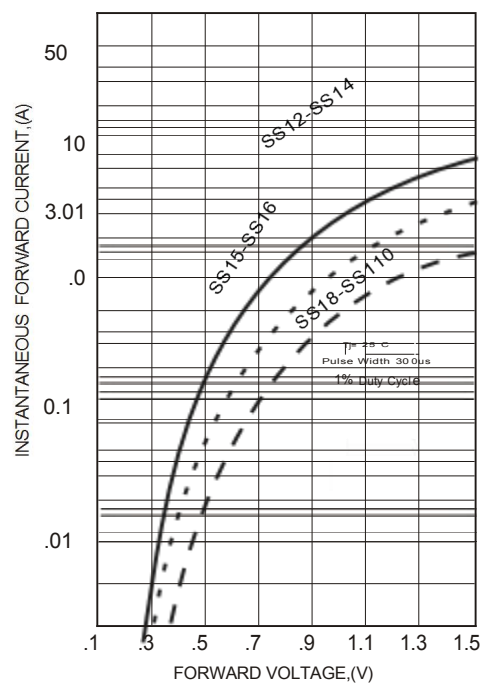


FIG.4-TYPICAL JUNCTION CAPACITANCE

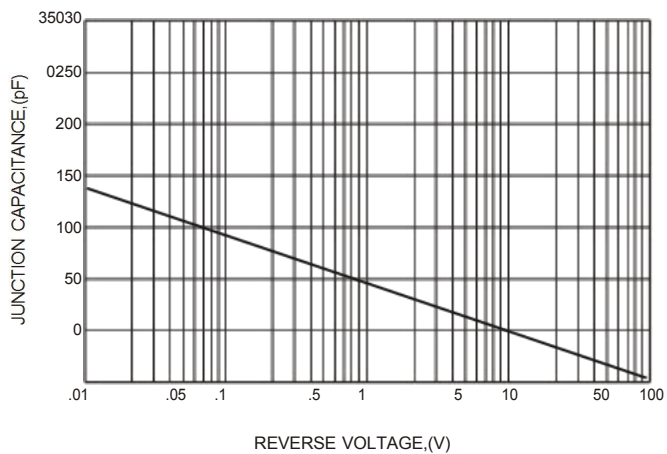


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

