

## SS815 THRU SS820

### 8.0 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: 0.21 grams

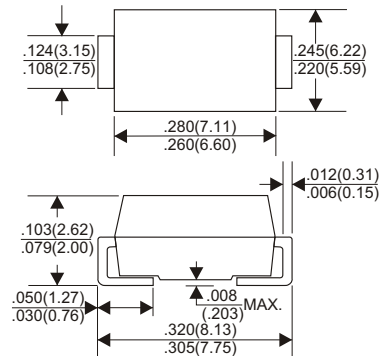
#### VOLTAGE RANGE

150 to 200 Volts

#### CURRENT

8.0 Ampere

#### DO-214AB(SMC)



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	SS815	SS820	UNITS
Maximum Recurrent Peak Reverse Voltage	150	200	V
Maximum RMS Voltage	105	140	V
Maximum DC Blocking Voltage	150	200	V
Maximum Average Forward Rectified Current	8.0		A
See Fig. 1	8.0		A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	175		A
Maximum Instantaneous Forward Voltage at 8.0A	0.9		V
Maximum DC Reverse Current Ta=25°C	0.02		µA
at Rated DC Blocking Voltage Ta=125°C	2		mA
Typical Junction Capacitance (Note1)	380		pF
Typical Thermal Resistance R JA (Note 2)	10		°C/W
Operating Temperature Range Tj	-55 to +175		°C
Storage Temperature Range Tstg	-55 to +175		°C

#### NOTES:

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

## RATING AND CHARACTERISTIC CURVES (SS815 THRU SS820)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

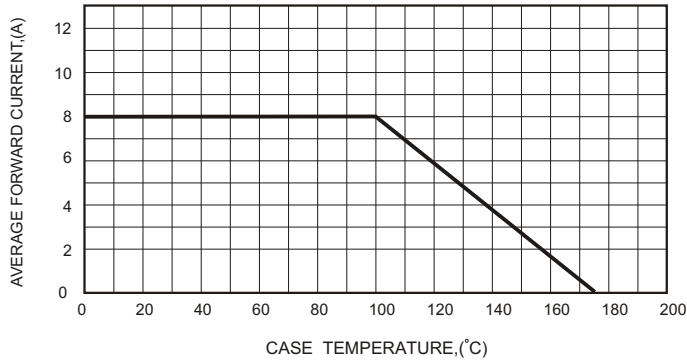


FIG.2-TYPICAL FORWARD CHARACTERISTICS

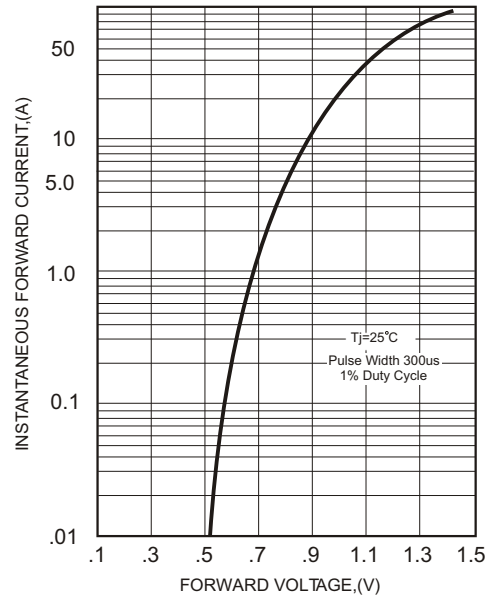


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

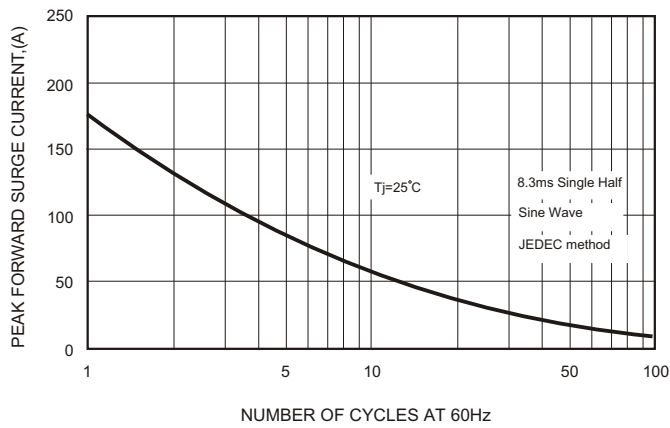


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

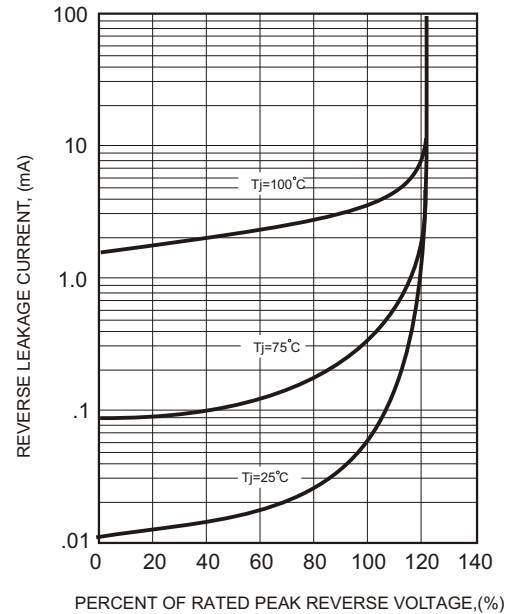


FIG.4-TYPICAL JUNCTION CAPACITANCE

