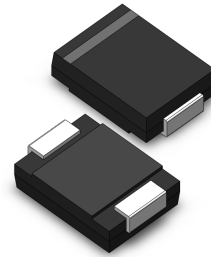


**VOLTAGE RANGE: 20 - 100V**  
**CURRENT: 6.0 A**

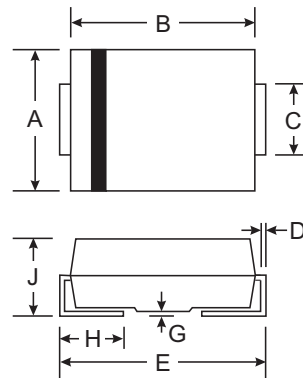


### Features

- Schottky Barrier Chip
- Ideally Suited for Automatic Assembly
- Low Power Loss, High Efficiency
- For Use in Low Voltage Application
- Guard Ring Die Construction
- Plastic Case Material has UL Flammability Classification Rating 94V-0

### Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.21 grams (approx.)



SMC/DO-214AB		
Dim	Min	Max
A	5.59	6.22
B	6.60	7.11
C	2.75	3.18
D	0.15	0.31
E	7.75	8.13
G	0.10	0.20
H	0.76	1.52
J	2.00	2.62
All Dimensions in mm		

### Maximum Ratings and Electrical Characteristics T<sub>A</sub> = 25°C unless otherwise specified

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

Characteristic	Symbol	SS62	SS63	SS64	SS65	SS66	SS68	SS69	SS610	Unit		
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V <sub>RRM</sub> V <sub>VRWM</sub> V <sub>R</sub>	20	30	40	50	60	80	90	100	V		
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	21	28	35	42	56	64	71	V		
Average Rectified Output Current @T <sub>L</sub> = 90°C	I <sub>O</sub>	6.0								A		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	150								A		
Forward Voltage @I <sub>F</sub> = 6.0A	V <sub>FM</sub>	0.55		0.70		0.85				V		
Peak Reverse Current @T <sub>A</sub> = 25°C	I <sub>RM</sub>	1.0								mA		
Typical Thermal Resistance (Note 1)	R <sub>θJL</sub> R <sub>θJA</sub>	17					55					°C/W
Operating Temperature Range	T <sub>j</sub>	-65 to +125								°C		
Storage Temperature Range	T <sub>STG</sub>	-65 to +150								°C		
Typical Junction capacitance(NOTE1)	C <sub>J</sub>	300								PF		

Note: 1. Mounted on P.C. Board with 14mm<sup>2</sup> copper pad area.  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 v



## RATINGS AND CHARACTERISTIC CURVE SS62 THRU SS610

FIG. 1 - FORWARD CURRENT DERATING CURVE

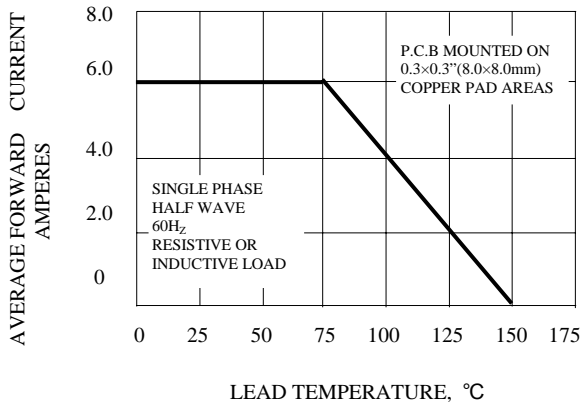


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

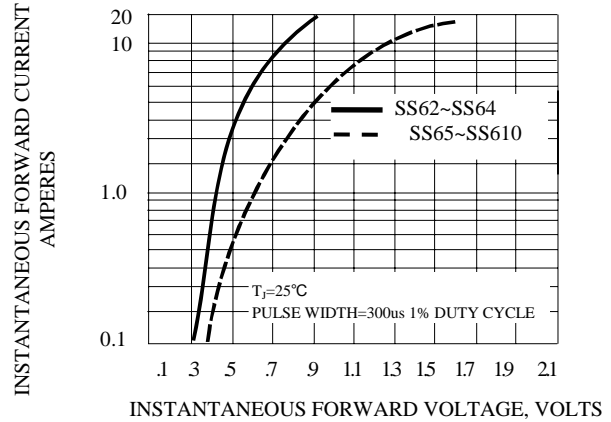


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

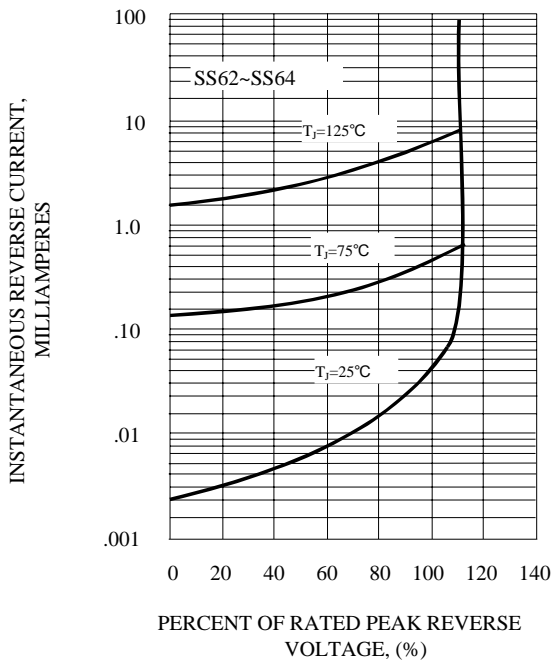


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

