

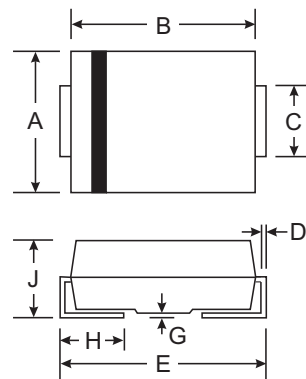
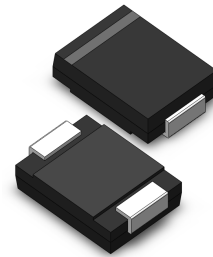
VOLTAGE RANGE: 20 - 100V
CURRENT: 6.0 A

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-O

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 $T_A = 25^\circ\text{C}$ 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	V_{RRM}										
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	90	100	V	
DC Blocking Voltage	V_R										
RMS Reverse Voltage	$V_R(\text{RMS})$	14	21	28	35	42	56	64	71	V	
Average Rectified Output Current @ $T_L = 90^\circ\text{C}$	I_O	6.0								A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	150								A	
Forward Voltage @ $I_F = 6.0\text{A}$	V_F	0.55			0.70		0.85			V	
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	I_{RM}	1.0								mA	
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$ $R_{\theta JA}$						17 55				$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_j	-65 to +125								$^\circ\text{C}$	
Storage Temperature Range	T_{STG}	-65 to +150								$^\circ\text{C}$	
Typical Junction capacitance(NOTE1)	C_j	300								PF	

Note: 1. Mounted on P.C. Board with 14mm² 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

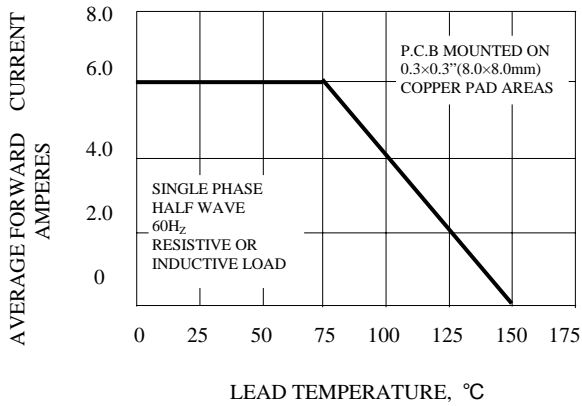


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

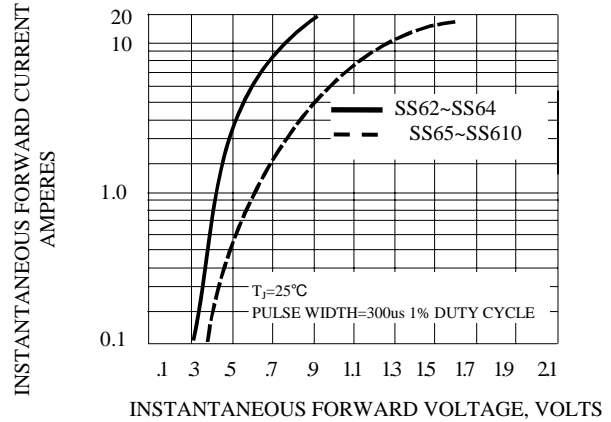


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

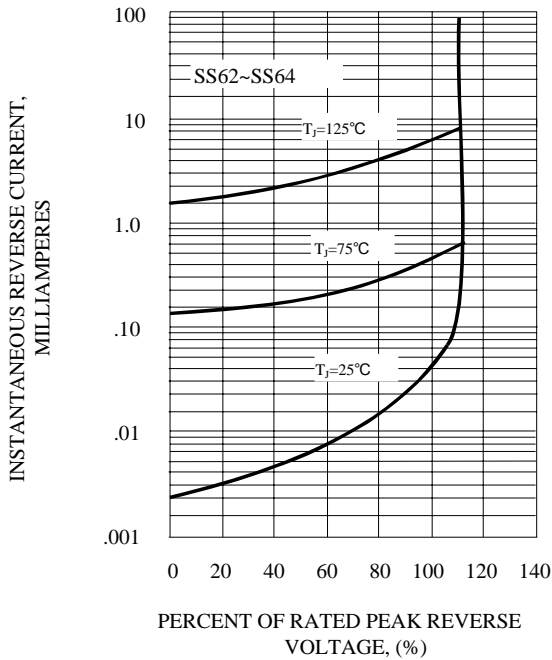


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

