

**VOLTAGE RANGE: 20 - 100V**

**CURRENT: 6.0 A**

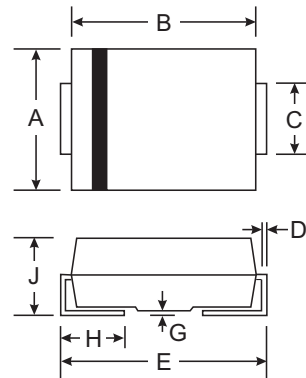
### Features

- 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 $T_A = 25^\circ\text{C}$ unless otherwise specified

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

Characteristic	Symbol	SK62	SK63	SK64	SK645	SK65	SK66	SK68	SK610	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	45	50	60	80	100	V
Working Peak Reverse Voltage	$V_{RWM}$									
DC Blocking Voltage	$V_R$									
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	31.5	35	42	56	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 @ $I_F = 6.0\text{A}$	$V_{FM}$	0.65				0.85				V
Peak Reverse Current @ $T_A = 25^\circ\text{C}$	$I_{RM}$	1.0								mA
At Rated DC Blocking Voltage @ $T_A = 100^\circ\text{C}$		20								
Typical Junction Capacitance Measured at 1.0MHz, $V_R = 4.0\text{V}$	$C_J$	200								pF
Operating Temperature Range	$T_j$	-65 to +125								$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-65 to +150								$^\circ\text{C}$

Note: 1. Mounted on P.C. Board with 14mm<sup>2</sup> copper pad area.

## RATINGS AND CHARACTERISTIC CURVE SK62 THRU SK610

FIG. 1 - FORWARD CURRENT DERATING CURVE

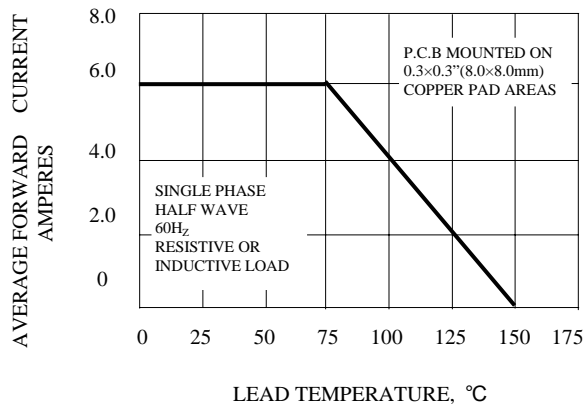


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

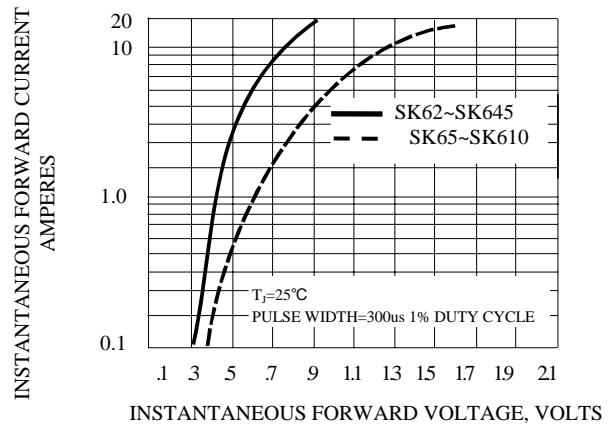


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

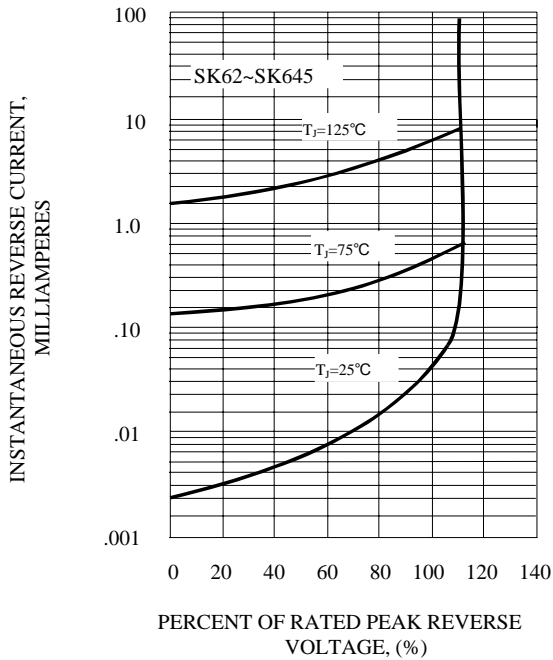


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

