



SK12L ~ SK14SL

1 A Surface Mount Schottky Barrier Rectifiers

Voltage Range 20 to 40 Volts
Current 1.0 Amperes Low V_F Types

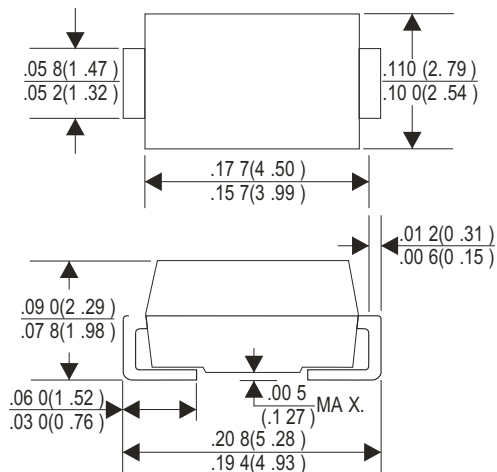
Features

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Super 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

DO-214AC(SMA)



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

Type Number	SK12L	SK12LL	SK12SL	SK14L	SK14LL	SK14SL	Units
Maximum Recurrent Peak Reverse Voltage	20	20	20	40	40	40	v
Maximum RMS Voltage	14	14	14	28	28	28	v
Maximum DC Blocking Voltage	20	20	20	40	40	40	v
Maximum Average Forward Rectified Current	1.0						A
Peak Forward Surge Current, 8.3 ms SingleHalf Sinewave -Superimposed on Rated Loadmethod (JEDEC)	35						A
Maximum Instantaneous Forward Voltage At 1.0A	0.40	0.37	0.31	0.38	0.34	0.31	V
Maximum D.C. Reverse Current @ $T_A=25^{\circ}\text{C}$	1.0						mA
At Rated DC Blocking Voltage @ $T_A=80^{\circ}\text{C}$	40						mA
Operating Junction Temperature Range T_J	-25+80						°C
Storage Temperature Range T_{STG}	-50+125						°C

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RATING AND CHARACTERISTIC CURVES (SK12L THRU SK14SL)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

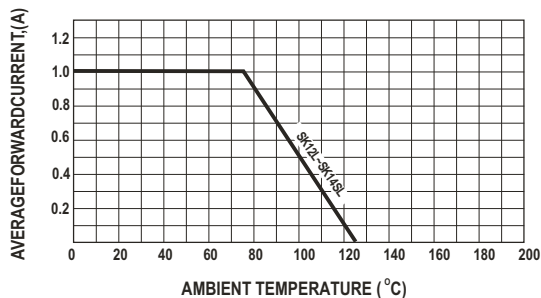


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

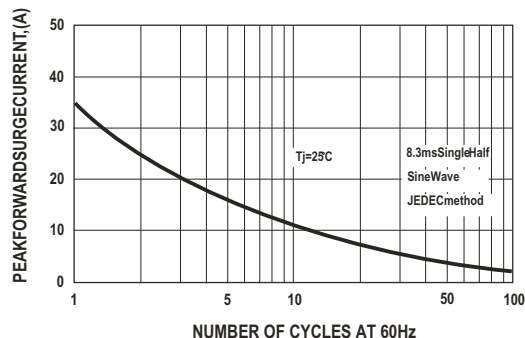


FIG.3-TYPICAL JUNCTION CAPACITANCE

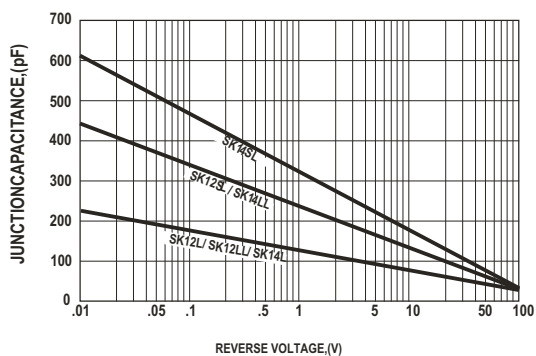
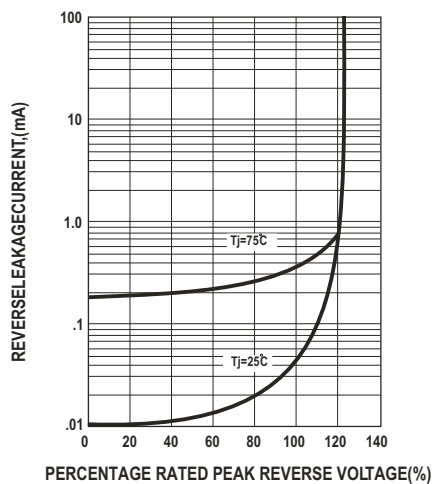


FIG.4 - TYPICAL REVERSE CHARACTERISTICS





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FIG. 5 (For SK12L)

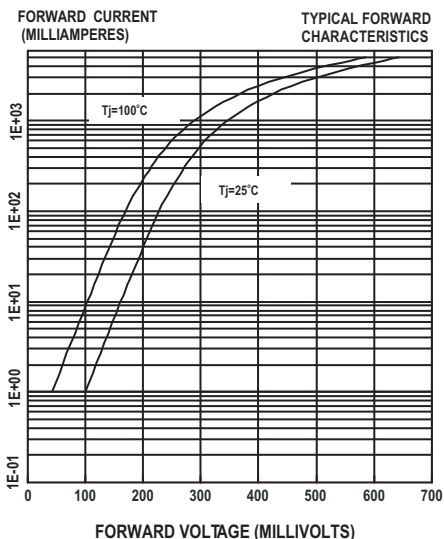


FIG. 6 (For SK12LL)

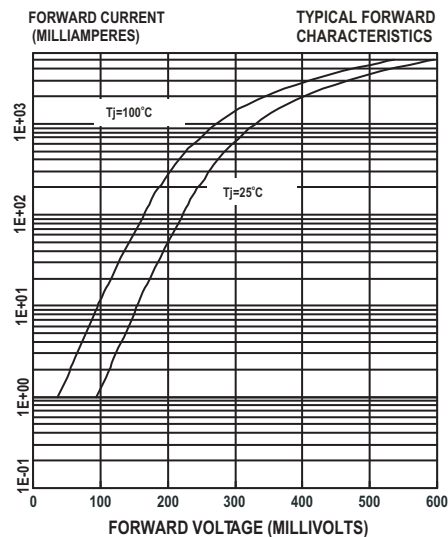


FIG. 7 (For SK12SL)

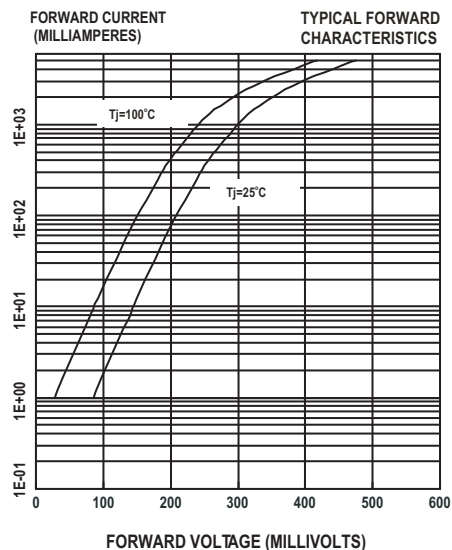
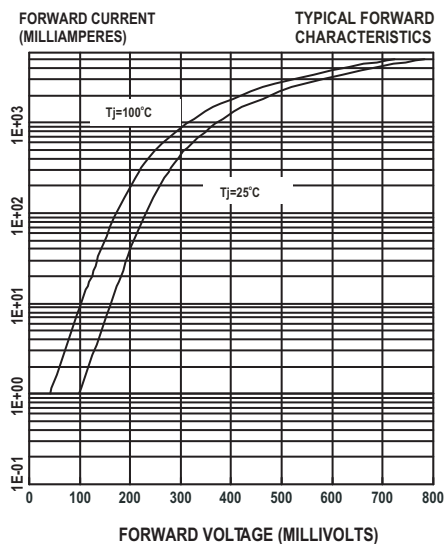


FIG. 8 (For SK14L)





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FIG. 9 (For SK14LL)

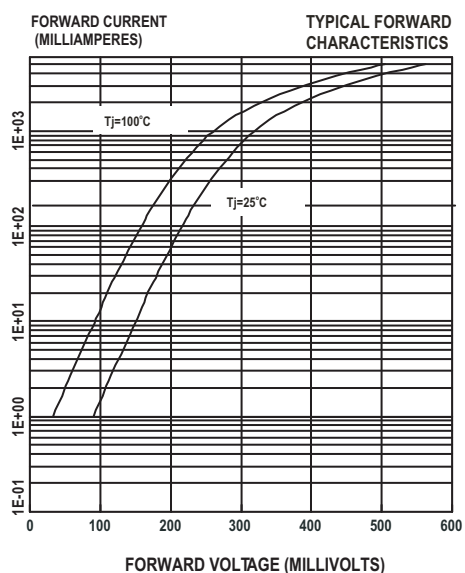


FIG. 10 (For SK14SL)

