



# SKL22A THRU SKLL24A

## 2.0 AMPS. Surface Mount Schottky Barrier Rectifiers



Voltage Range  
20 to 40 Volts  
Current  
2.0 Amperes

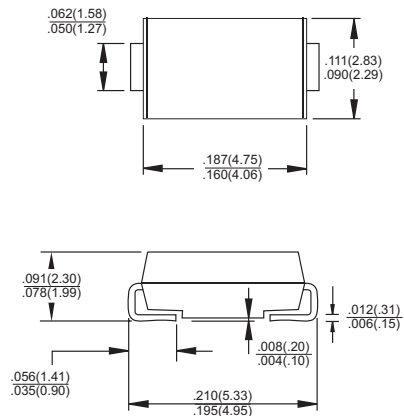
### Features

- ✦ For surface mounted application
- ✦ Metal to silicon rectifier, majority carrier conduction
- ✦ Low forward voltage drop
- ✦ Easy pick and place
- ✦ High surge current capability
- ✦ Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ✦ Epitaxial construction
- ✦ High temperature soldering: 260°C / 10 seconds at terminals

### Mechanical Data

- ✦ Case: Molded plastic
- ✦ Terminals: Solder plated
- ✦ Polarity: Indicated by cathode band
- ✦ Packaging: 12mm tape per EIA STD RS-481
- ✦ Weight: 0.063gram

### SMA/DO-214AC



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	Symbol	SKL22A	SKLL22A	SKL24A	SKLL24A	Units
Marking Code		SL22A	SLL22A	SL24A	SLL24A	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	20	40	40	V
Maximum RMS Voltage	$V_{RMS}$	14	14	28	28	V
Maximum DC Blocking Voltage	$V_{DC}$	20	20	40	40	V
Maximum Average Forward Rectified Current at $T_L$ (See Fig. 1)	$I_{(AV)}$	2.0				A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	60				A
Maximum Instantaneous Forward Voltage @ 2.0A	$V_F$	0.38	0.34	0.40	0.36	V
Maximum DC Reverse Current @ $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A = 80^\circ\text{C}$	$I_R$	1.0 40				mA mA
Operating Temperature Range	$T_J$	-25 to +125				$^{\circ}\text{C}$
Storage Temperature Range	$T_{STG}$	-50 to +125				$^{\circ}\text{C}$

Notes: 1. Measured on P.C.Board with 0.2 x 0.2" (5 x 5mm) Copper Pad Areas.

## RATINGS AND CHARACTERISTIC CURVES (SKL22A THRU SKL24A)

FIG.1- TYPICAL FORWARD CURRENT DERATING CURVE

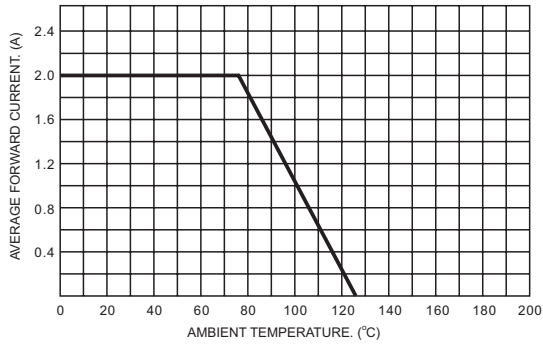


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

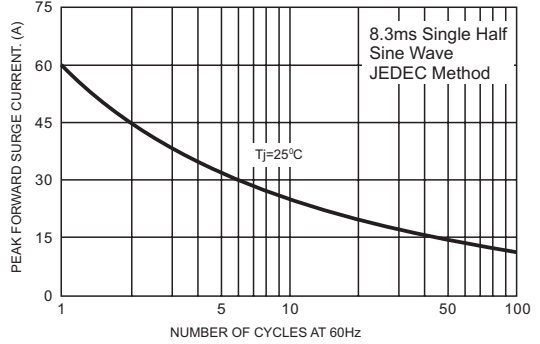


FIG.3- TYPICAL JUNCTION CAPACITANCE

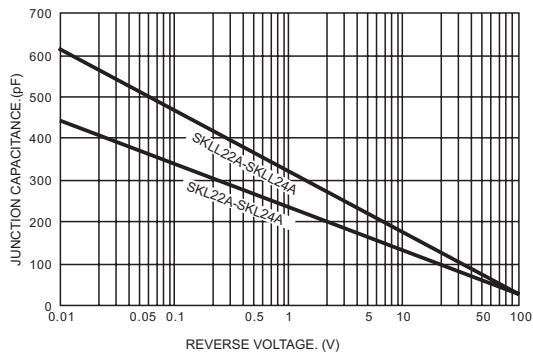
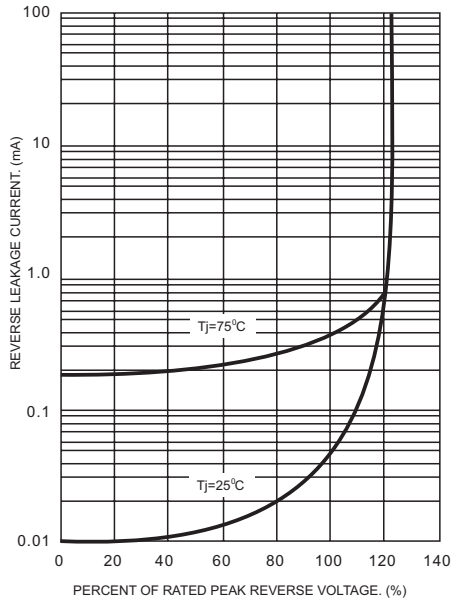


FIG.4- TYPICAL REVERSE CHARACTERISTICS



## RATINGS AND CHARACTERISTIC CURVES (SKL22A THRU SKLL24A)

FIG.5- TYPICAL FORWARD CHARACTERISTICS  
(FOR SKL22A)

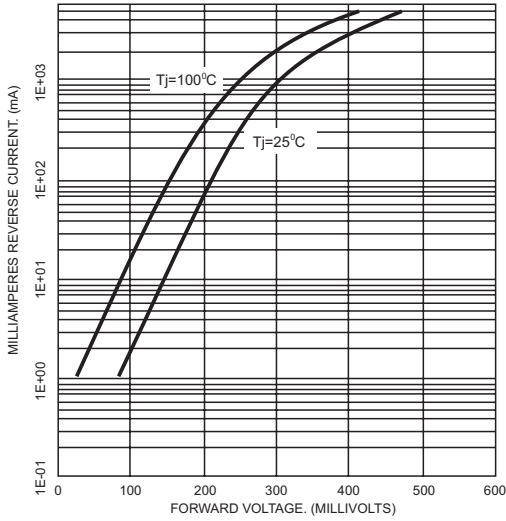


FIG.6- TYPICAL FORWARD CHARACTERISTICS  
(FOR SKLL22A)

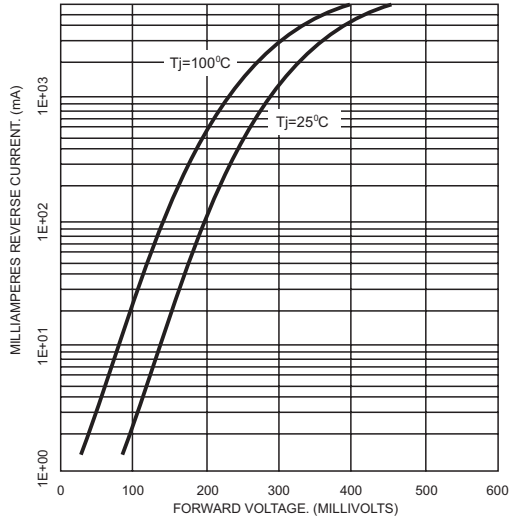


FIG.7- TYPICAL FORWARD CHARACTERISTICS  
(FOR SKL24A)

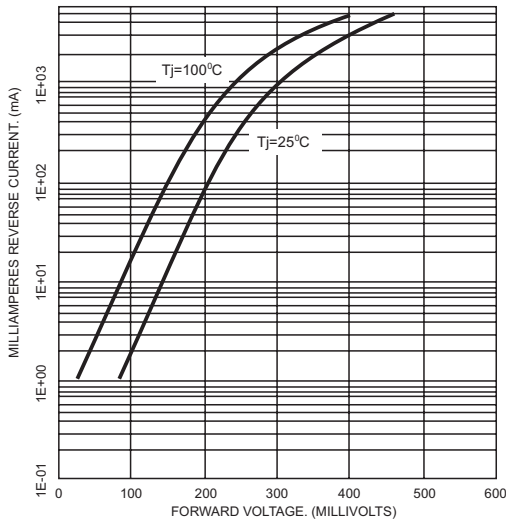


FIG.8- TYPICAL FORWARD CHARACTERISTICS  
(FOR SKLL24A)

