



SK22A THRU SK210A

2.0 AMPS. Surface Mount Schottky Barrier Rectifiers



Voltage Range
20 to 100Volts
Current
2.0 Amperes

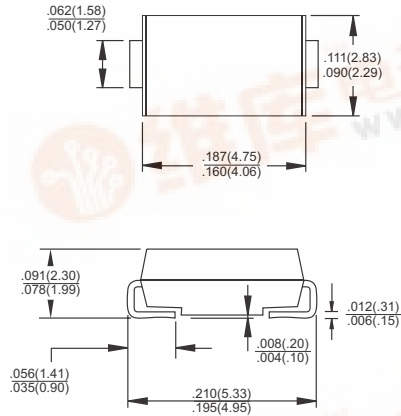
Features

- ✧ 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: 0.093gram

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	SK 22A	SK 23A	SK 24A	SK 25A	SK 26A	SK 29A	SK 210A	Units	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	V	
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	V	
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	V	
Maximum Average Forward Rectified Current at T_J (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}	50							A	
Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	V_F	0.5		0.7		0.85		V		
Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 100^\circ C$	I_R	0.5			5.0		0.1		mA	
Typical Junction Capacitance	C_j	10					50		pF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	88							$^\circ C/W$	
Operating Temperature Range	T_J	-65 to +125				-65 to +150				$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +150							$^\circ C$	

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle

2. Measured on P.C.Board with 0.2 x 0.2" (5.0 x 5.0mm) Copper Pad Areas.



RATINGS AND CHARACTERISTIC CURVES (SK22A THRU SK210A)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

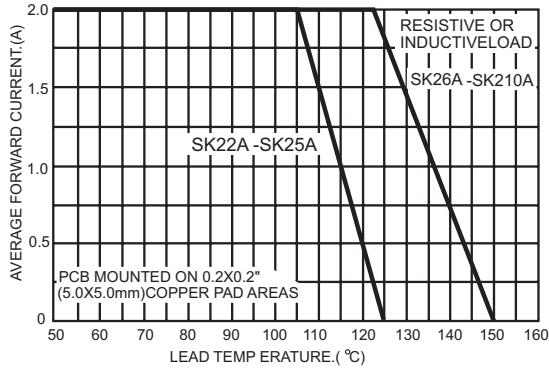


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

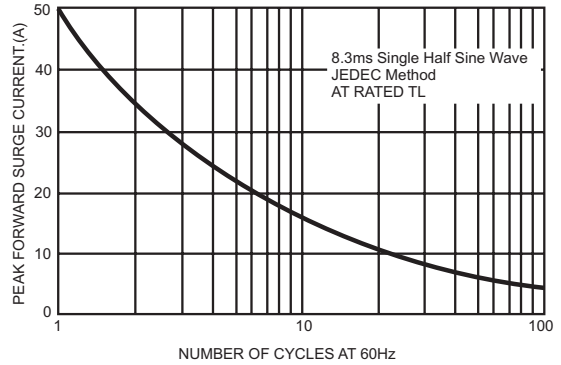


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

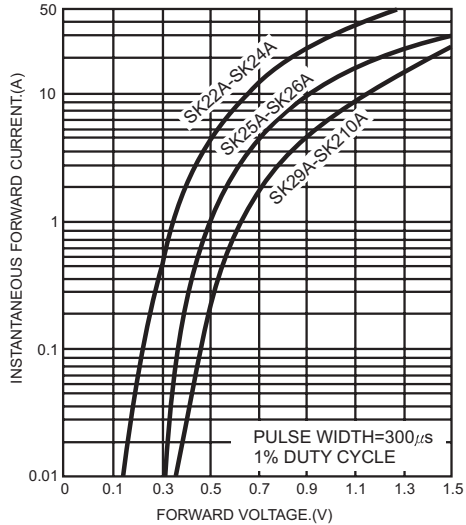


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

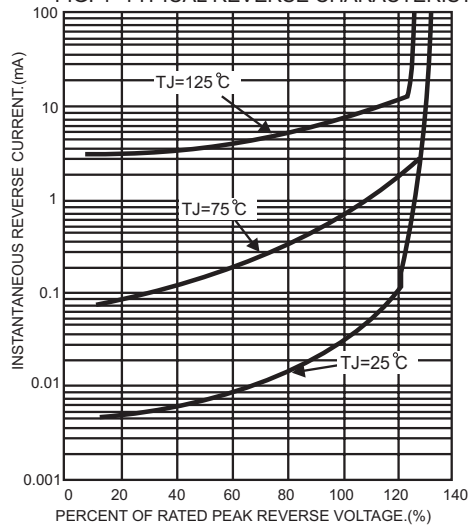


FIG. 5- TYPICAL JUNCTION CAPACITANCE

