



SK32A THRU SK310A

3.0 AMPS. Surface Mount Schottky Barrier Rectifiers



Voltage Range
20 to 100 Volts
Current
3.0 Amperes

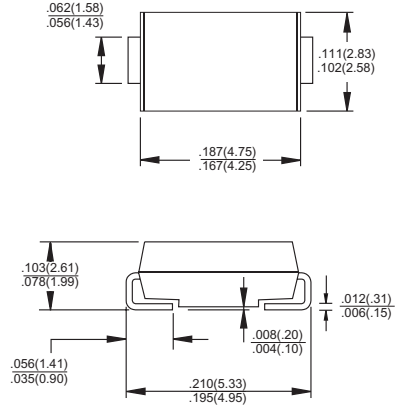
SMA/DO-214AC

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: 250°C / 10 seconds at terminals

Mechanical Data

- ✧ Case: Molded plastic
- ✧ Terminals: Solder plated
- ✧ Polarity: Indicated by cathode band
- ✧ Packaging: 16mm tape per EIA STD RS-481
- ✧ Weight: 0.21 gram



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	SK 32A	SK 33A	SK 34A	SK 35A	SK 36A	SK 39A	SK 310A	Units
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	90	100	V
Maximum RMS Voltage	14	21	28	35	42	63	70	V
Maximum DC Blocking Voltage	20	30	40	50	60	90	100	V
Maximum Average Forward Rectified Current at T _L (See Fig. 1)	3.0							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	70					150		A
Maximum Instantaneous Forward Voltage (Note 1) @ 3.0A	0.55		0.75		0.85		V	
Maximum DC Reverse Current @ T _A = 25°C at Rated DC Blocking Voltage	0.5					0.6		mA
Typical Thermal Resistance (Note 2) R θ JL R θ JA					28		°C/W	
					88		°C/W	
Operating Temperature Range T _J	-55 to +125			-55 to +150				°C
Storage Temperature Range T _{STG}	-55 to +150							

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 Area as.

RATINGS AND CHARACTERISTIC CURVES (SK32A THRU SK310A)

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

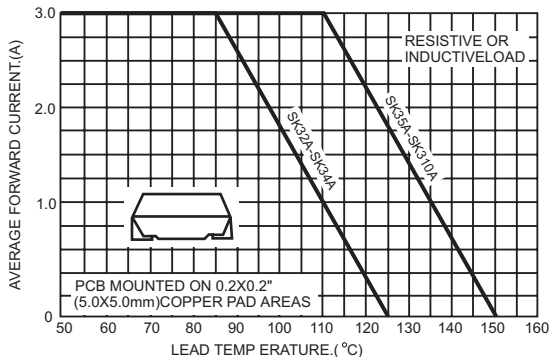


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

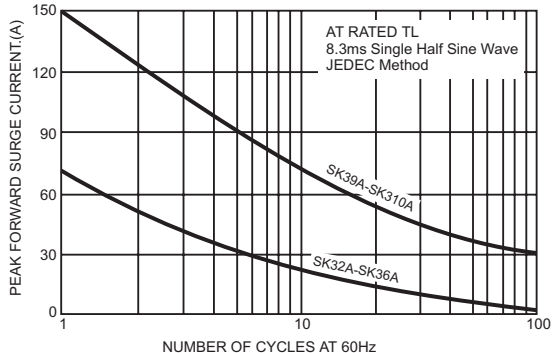


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

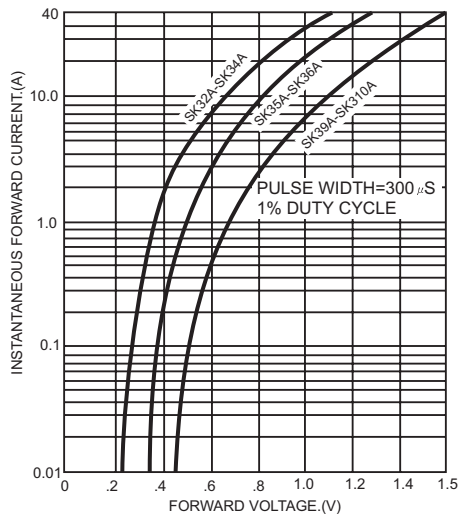


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

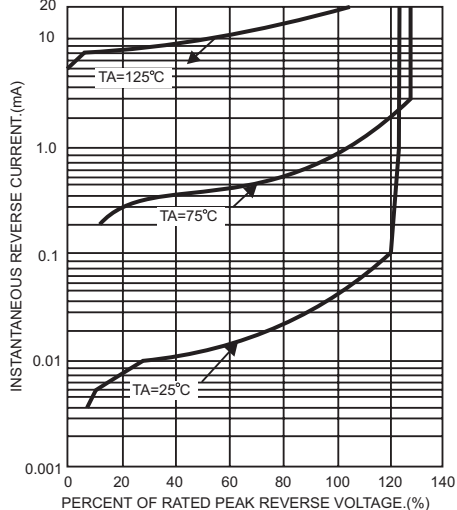


FIG. 5- TYPICAL JUNCTION CAPACITANCE

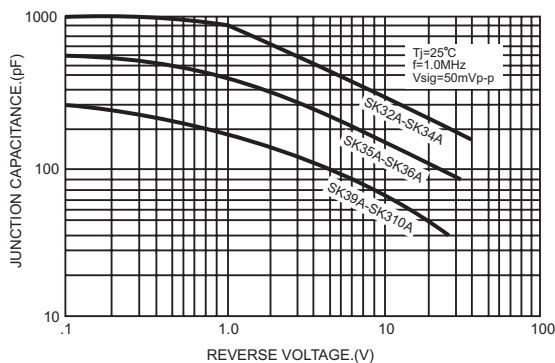


FIG. 6- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

