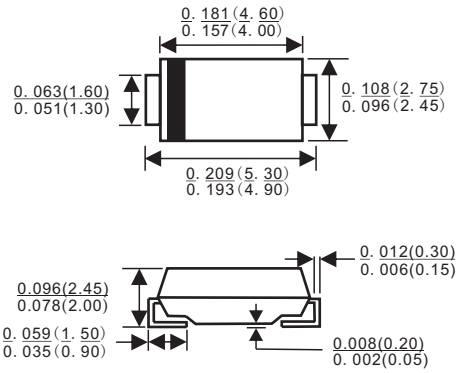
SK32A-SK320A

3.0AMPS. Surface Mount Schottky Barrier Rectifiers

SMA/DO-214AC



Dimensions in inches and(millimeters)

Features

- For surface mounted application
- Easy pick and place
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High current capability, low VF
- 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: JEDEC SMA/DO-214AC Molded plastic
- Terminals: Pure tin plated, lead free
- Polarity: Indicated by cathode band
- Weight: 0.064 gram

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%

Marking code	Symbol	SK 32A	SK 33A	SK 34A	SK 35A	SK 36A	SK 38A	SK 39A	SK 310A	SK 315A	SK 320A	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	90	100	150	200	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	63	70	105	140	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	90	100	150	200	V
Maximum Average Forward Rectified Current at T_L (See Fig. 1)	$I_{(AV)}$	3.0										A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	70										A
Maximum Instantaneous Forward Voltage (Note 1) IF= 3.0A @ 25°C	V_F	0.55			0.75			0.85				V
Maximum DC Reverse Current @ T_A =25°C at	I_R	0.2							0.01			mA
Rated DC Blocking Voltage @ T_A=125°C		10			5				0.5			
Typical Thermal Resistance (Note 2)	$R_{\Theta JL}$ / $R_{\theta JA}$	28 / 88										°C/W
Operating Temperature Range	T_J	-55 to +150						-55 to +175				°C
Storage Temperature Range	T_{STG}	-55 to +150						-55 to +175				°C

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

SK32A-SK320A

3.0AMPS. Surface Mount Schottky Barrier Rectifiers

RATINGS AND CHARACTERISTIC CURVES (SK32A THRU SK320A)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

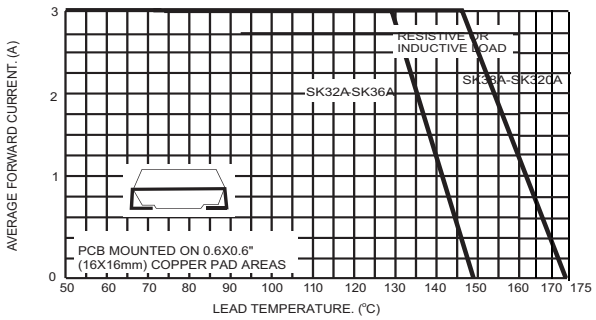


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

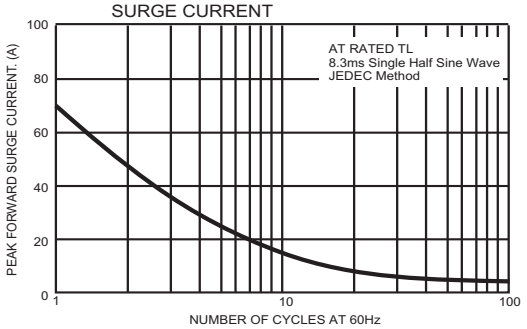


FIG.3- TYPICAL FORWARD CHARACTERISTICS

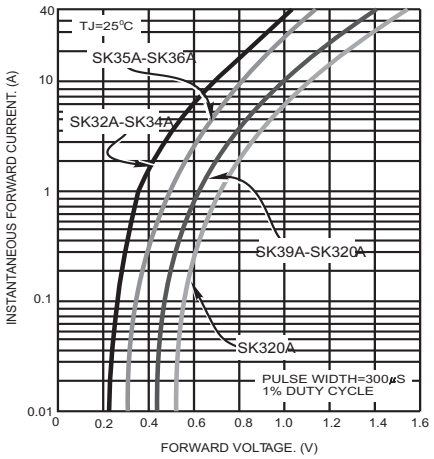


FIG.4- TYPICAL REVERSE CHARACTERISTICS

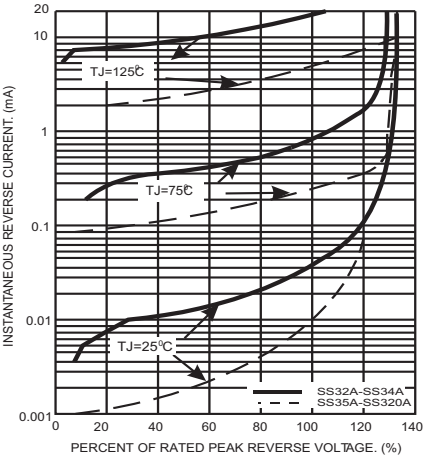


FIG.5- TYPICAL JUNCTION CAPACITANCE

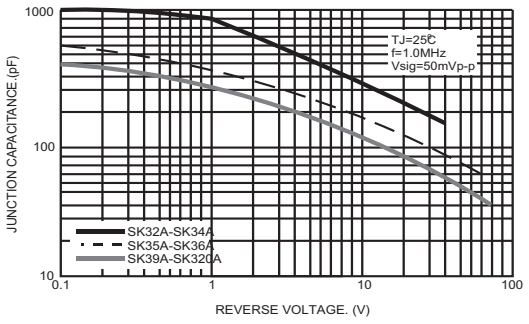
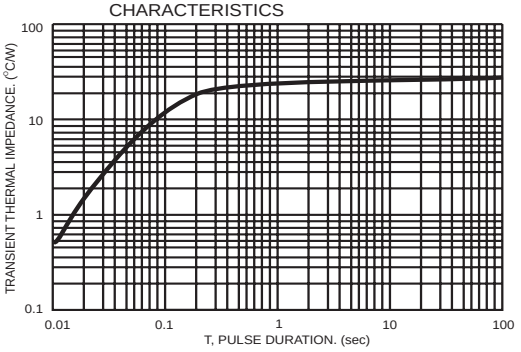


FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS



PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMA	5000/REEL	80000	36X30.6X31	12.00	11.00