

SK22A - SK215A



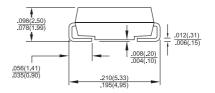
2.0 AMPS. Surface Mount Schottky Barrier Rectifiers SMA/DO-214AC



Features

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

.062(1.58) .050(1.27) .111(2.83) .090(2.29)



Mechanical Data

Case: Molded plastic

Terminals: Pure tin plated, lead free.
 Polarity: Indicated by cathode band

Packaging: 12mm tape per EIA STD RS-481

♦ Weight: 0.093gram

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	SK 215A	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current at T _L (See Fig. 1)	I _(AV)	2.0								Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50								Α
Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	V_{F}		0.5 0.7		0.	85	0.95	V		
Maximum DC Reverse Current @ T _A =25 °C	I _R	0.5 0.1							mΑ	
at Rated DC Blocking Voltage @ T _A =125 °C			10		5	.0		mΑ		
Non-repetitive Peak Reverse Avalanche Energy L=40mH Tj=25 °C max prior to Surge, Inductive load Switched off	E _{RSM}	20							mJ	
Typical Junction Capacitance	Cj	10				50			рF	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	88							°C/W	
Operating Temperature Range	T_{J}	-65 to +125 -65 to +1				+150)	°C		
Storage Temperature Range	Tstg	-65 to +150							°C	

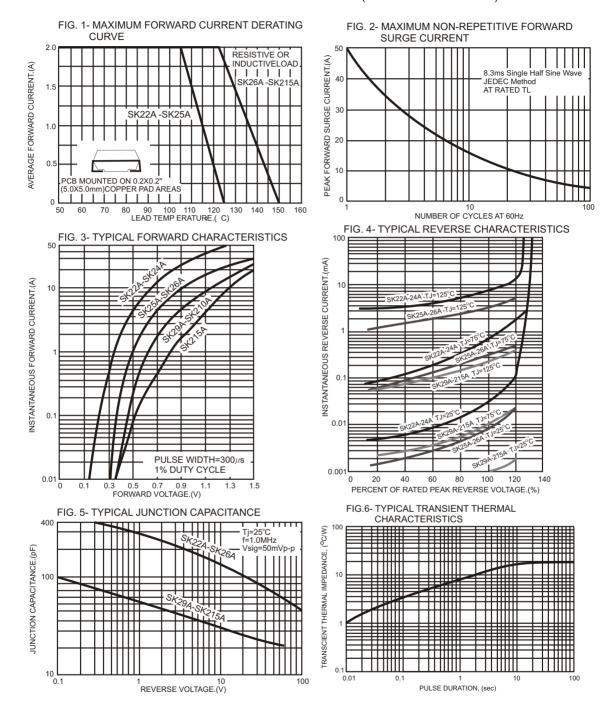
Notes:

- 1. Pulse Test with PW=300 usec, 1% Duty Cycle
- 2. Measured on P.C.Board with 0.2" x 0.2"(5.0mm x 5.0mm) Copper Pad Areas.

Dimensions in inches and (millimeters)



RATINGS AND CHARACTERISTIC CURVES (SK22A THRU SK215A)



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