

# 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
- ♦ 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: Pure tin plated, lead free.
- Polarity: Indicated by cathode band
- Packaging: 12mm tape per EIA STD RS-481
- ♦ Weight: 0.093gram

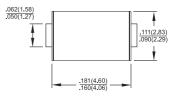
## **Maximum Ratings and Electrical Characteristics**

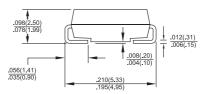
Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

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 <sub>RRM</sub>	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current at T <sub>L</sub> (See Fig. 1)	I <sub>(AV)</sub>	2.0							А	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I <sub>FSM</sub>	50							А	
Maximum Instantaneous Forward Voltage (Note 1) @ 2.0A	$V_{F}$	0.5 0.7			0.	85	0.95	V		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	I <sub>R</sub>	0.5				0.1 2.0			mA mA	
Non-repetitive Peak Reverse Avalanche Energy L=40mH Tj=25 °C max prior to Surge, Inductive load Switched off	E <sub>RSM</sub>	20						mJ		
Typical Junction Capacitance	Cj	10				50			pF	
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>	88							°C/W	
Operating Temperature Range	TJ	-65 to +125			-65 to +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)





