# **SK22 THRU S210**

## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

## REVERSE VOLTAGE: FORWARD CURRENT:

## 20 to 100 VOLTS 2.0 AMPERE

#### http://www.njzrg.com

#### FEATURES

- · Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O
- $\cdot$  For surface mounted applications
- · High current capacity
- · Built-in strain relief
- · Low profile package
- · Metal to silicon rectifier. majority carrier conduction
- · High surge capacity
- $\cdot$  Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · High temperature soldering :  $260^{\circ}$ C /10 seconds at terminals

### MECHANICAL DATA

Case: Molded plastic, DO-214AA(SMB) Terminals: Axial leads, solderable per MIL-STD-750, method 2026 guaranteed Polarity: Color band denotes cathode end Packaging: 12mm tape per EIA STD RS-481 Weight: 0.003 ounce, 0.093 gram

## Maximum Ratings and Electrical Characteristics

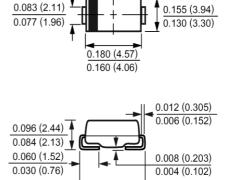
Ratings at 25 ambient temperature unless otherwise specified. Single phase, half wave,  $60H_Z$ , resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	SK22	SK23	SK24	SK25	SK26	SK28	SK29	S210	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	14	21	28	35	42	56	64	71	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current at T <sub>L</sub> (See Fig. 1)	I <sub>(AV)</sub>	2.0								Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50								Атр
Maximum Forward Voltage at 2.0A (Note 1)	V <sub>F</sub>	0.50 0.70 0.8				0.85		Volts		
Maximum Reverse Currentat TA=25at Rated DC Blocking VoltageTA=100	I <sub>R</sub>	0.5 20								mAmp
Typical Thermal Resistance (Note 2)	R <sub>0JA</sub> R <sub>0JL</sub>	75 17								/W
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +125								
Storage Temperature Range	Tstg	-55 to +150								

#### NOTES:

1- Pulse test: 300µs pulse width, 1% duty cycle

2- P.C.B. mounted with 0.3 x 0.3" (8.0 x 8.0mm) Copper Pad Areas



Dimensions in inches and (millimeters)

0.220 (5.59) 0.205 (5.21)

DO-214AA(SMB)

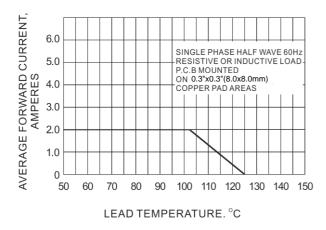


## RATINGS AND CHARACTERISTIC CURVES

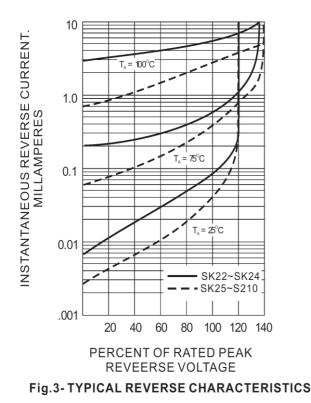
http://www.njzrg.com

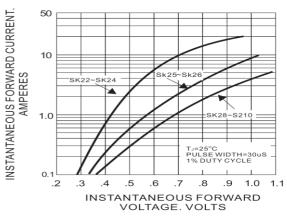
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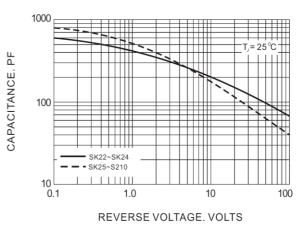


Fig.4- TYPICAL JUNCTION CAPACITANCE

