

SK22 THRU S210

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE - 20 to 100 Volts CURRENT - 2.0 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier majority carrier conduction
- Low power loss, High efficiency
- High current capability, low V_F
- High surge capacity
- For use in low voltage high frequency inverters,

free wheeling, and polarity protection applications

High temperature soldering guaranteed:
260 ¢J/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic

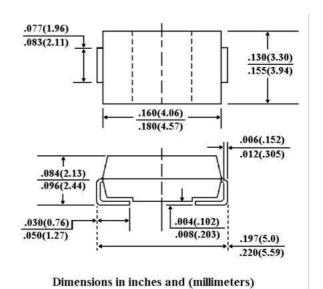
Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode Standard packaging: 12mm tape (EIA-481)

Weight: 0.003 ounce, 0.093 gram

SMB/DO-214AA



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Resistive or inductive load.

	SYMBOLS	SK22	SK23	SK24	SK25	SK26	SK28	SK29	S210	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	64	71	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current	I(AV)	2.0								Amps
at T∟ (See Figure 1)										
Peak Forward Surge Current 8.3ms single half sine-	Iгsм	50.0								Amps
wave superimposed on rated load(JEDEC method)										
Maximum Instantaneous Forward Voltage at 2.0A	VF	0.50			0.70		0.85		Volts	
(Note 1)										
Maximum DC Reverse Current T _A =25 ¢J(Note 1)	l _R	0.5								mA
At Rated DC Blocking Voltage T _A =100 ¢J		20.0								
Maximum Thermal Resistance (Note 2)	R £KJL	17								¢J/W
	R £KJA	75								
Operating Junction Temperature Range	TJ	-50 to +125								¢J
Storage Temperature Range	Тѕтс	-50 to +150								φJ

NOTES:

- 1. Pulse Test with PW=300 £g sec, 2% Duty Cycle.
- 2. Mounted on P.C.Board with 8.0mm² (.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES SK22 THRU S210

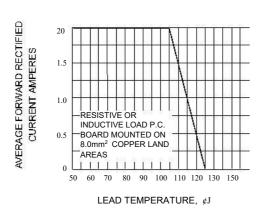
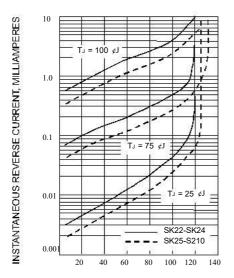
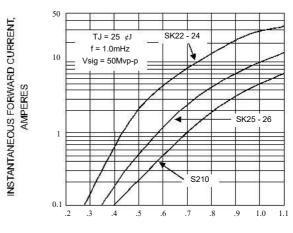


Fig. 1-FORWARD CURRENT DERATING CURVE



PERCENT OF RATED PEAK REVERSE VOLTAGE, %

Fig. 3-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

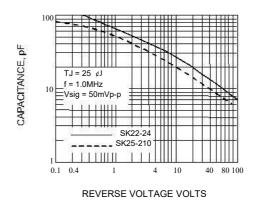


Fig. 4-TYPICAL JUNCTION CAPACITANCE

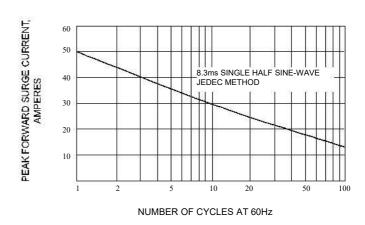


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

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