



SK12B - SK115B

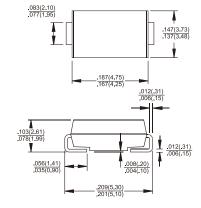
1.0 AMP. Surface Mount Schottky Barrier Rectifiers

SMB/DO-214AA



Features

- ♦ UL Recognized File # E-326243
- ♦ 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
- Green compound with suffix "G" on packing code & prefix "G" on datecode.



Dimensions in inches and (millimeters)

Marking Diagram

Mechanical Data

- ♦ Case: Molded plastic
- → Terminals: Pure tin plated, lead free.
- ♦ Polarity: Indicated by cathode band
- ♦ Packaging: 16mm tape per EIA STD RS-481
- ♦ Weight: 0.093 grams



SK1XB = Specific Device Code G = Green Compound

Y = Year M = Work Month

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 12B	SK 13B	SK 14B	SK 15B	SK 16B	SK 19B	SK 110B	SK 115B	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	VRMS	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current at T _A =75 °C	I F(AV)	1.0								Α
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	İFSM	30								Α
Maximum Instantaneous Forward Voltage @ 1.0A	VF	0.5 0.75			0.85		0.95	V		
Maximum DC Reverse Current (Note 1)@T _A =25 °C		0.5 0.1						mA		
at Rated DC Blocking Voltage @T _A =100 °C		10 5.0 -					mA			
@ T _A =125 °C		- 2.0							mA	
Typical Junction Capacitance (Note 2)	Cj	110							рF	
Typical Thermal Resistance (Note 3)	Røjl	25						°C/W		
Operating Temperature Range	Tu	-55 to +125 -55 to +150					°C			
Storage Temperature Range	Tstg		-55 to +150							°C

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

2. Measured at 1.0 MHz and Applies Reverse Voltage of 4.0V.

3. Measured on P.C.Board with 0.4" x 0.4" (10mm x 10mm) Copper Pad Area.

Version: D10



RATINGS AND CHARACTERISTIC CURVES (SK12B THRU SK115B)

