















ESD

105

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	SK12B - SK115B
Overseas Part Number	SK12B - SK115B
▶ Equivalent Part Number	SK12B - SK115B





1.0 AMP. Surface Mount Schottky Barrier Rectifiers



Features

- ♦ For surface mounted application
- ♦ Metal to silicon rectifier, majority carrier conduction

- ♦ High surge current capability
- Plastic material used carriers Underwriters Laboratory Classification 94V-0
- ♦ Epitaxial construction
- High temperature soldering:
 260°C / 10 seconds at terminals

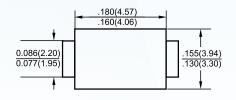
Mechanical Data

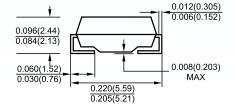
♦ Case: Molded plastic

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

♦ Weight: 0.093 gram

SMB/DO-214AA





Dimensions in inches and (millimeters)

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%

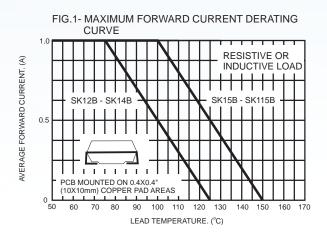
Type Number	Symbol	SK 12B	SK 13B	SK 14B	SK 15B	SK 16B	SK 90B	SK 110B	SK 115B	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	90	100	150	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	63	70	105	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	90	100	150	V
Maximum Average Forward Rectified Current at T _A =75 °C	I _(AV)	1.0							Α	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30							Α	
Maximum Instantaneous Forward Voltage @ 1.0A	V _F	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 =125 °C	I _R	10			5.0		2.0		mA	
Typical Junction Capacitance (Note 2)	Cj	110							pF	
Typical Thermal Resistance (Note 1)	$R_{\theta JL}$	25							°C/W	
Operating Temperature Range	TJ	-55 to +125 -55 to +150						°C		
Storage Temperature Range	Tstg	-55 to +150							°C	

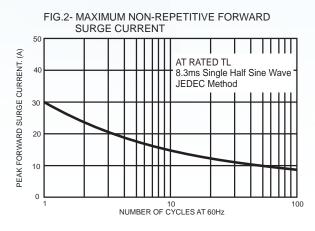
Notes:

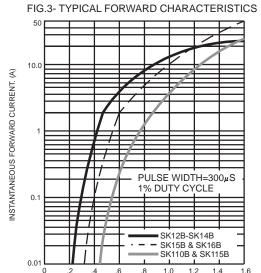
- Thermal Resistance from Junction to Lead.
- 2. Measured at 1.0 MHz and Applies Reverse Voltage of 4.0V.
- 3. Measured on P.C.Board with 0.4" x 0.4" (10mm x 10mm) Copper Pad Area.

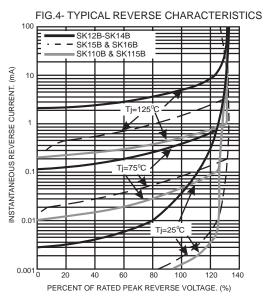


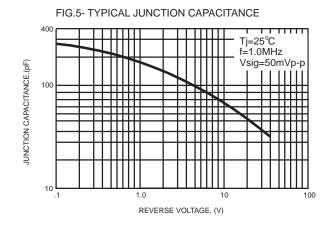
RATINGS AND CHARACTERISTIC CURVES (SK12B THRU SK115B)



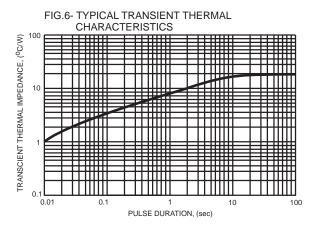








FORWARD VOLTAGE. (V)





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