

SK12B THRU SK110B

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 100 V

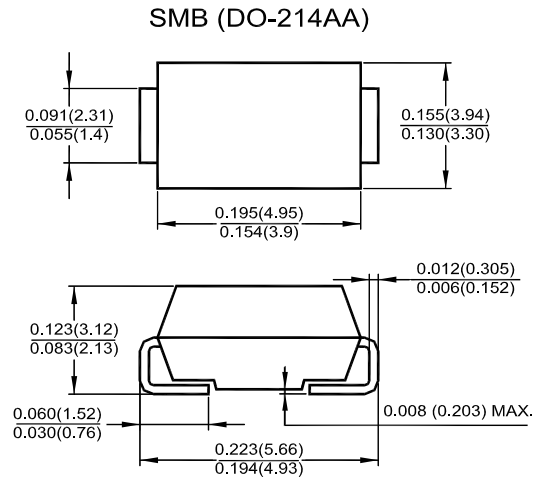
Forward Current - 1 A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- Built in strain relief, ideal for automated placement
- High forward surge current capability

Mechanical Data

- **Case:** JEDEC DO-214AA molded plastic body
- **Terminals:** leads solderable per MIL-STD-750, Method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

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

Parameter	Symbols	SK12B	SK13B	SK14B	SK15B	SK16B	SK18B	SK110B	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	V
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	V
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	V
Maximum Average Forward Rectified Current at T_L	$I_{F(AV)}$	1							A
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	40							A
Maximum Instantaneous Forward Voltage at 1 A	V_F	0.45	0.55	0.7		0.85		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5							mA
$T_a = 25\text{ }^\circ\text{C}$ $T_a = 100\text{ }^\circ\text{C}$		6			5				
Typical Junction Capacitance ¹⁾	C_j	110			90			pF	
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	88							°C/W
Operating Junction Temperature Range	T_j	- 65 to + 125			- 65 to + 150			°C	
Storage temperature range	T_{stg}	- 65 to + 150							°C

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

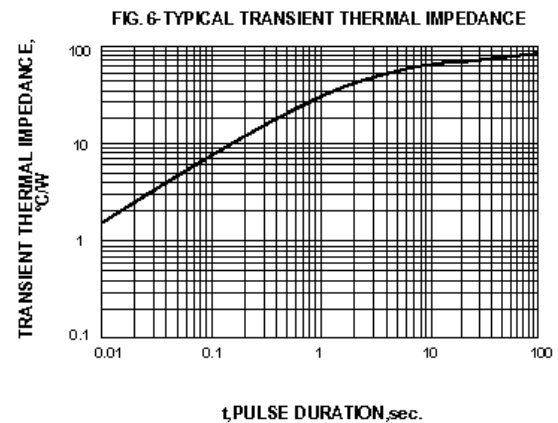
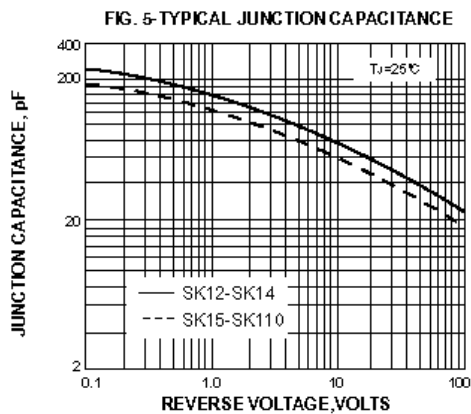
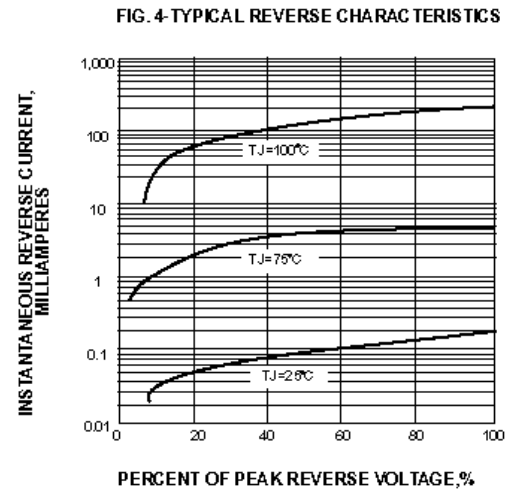
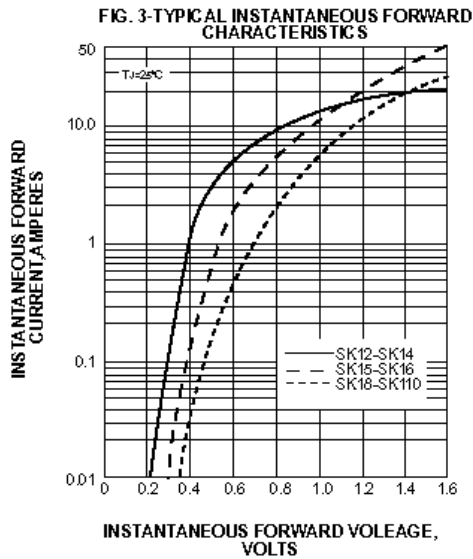
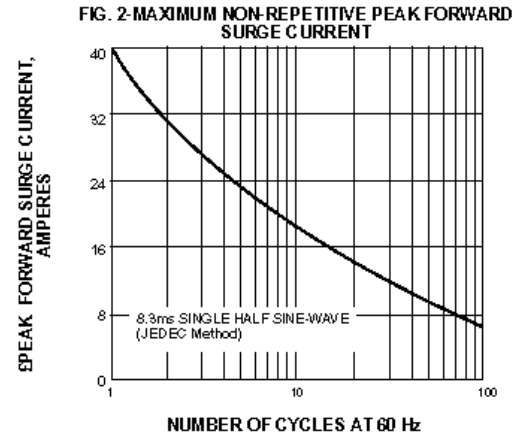
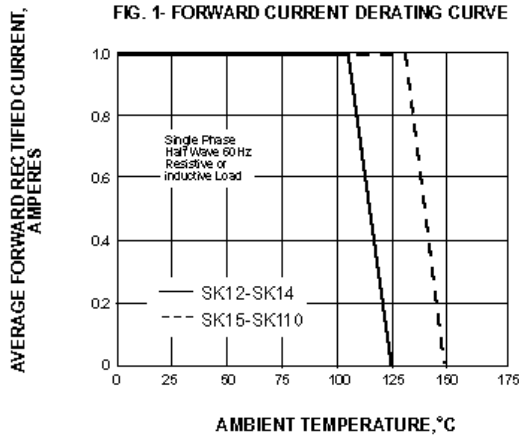
²⁾ P.C.B. mounted with 0.2 X 0.2 (5 X 5 mm) copper pad areas.

TOP DYNAMIC



Dated: 13/04/2012 C Rev: 02

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