

SK12BD THRU SK110BD-HAF

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 100 V

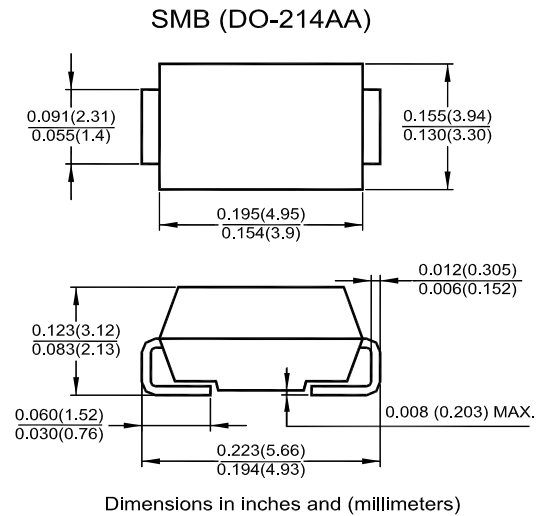
Forward Current - 1 A

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
- Halogen and Antimony Free(HAF), RoHS compliant

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



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	SK12BD	SK13BD	SK14BD	SK15BD	SK16BD	SK18BD	SK110BD	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 T _a = 25 °C at Rated DC Blocking Voltage T _a = 100 °C	I _R	0.5							mA
		6			5				
Typical Junction Capacitance ¹⁾	C _j	110			90				pF
Typical Thermal Resistance ²⁾	R _{θJA}	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

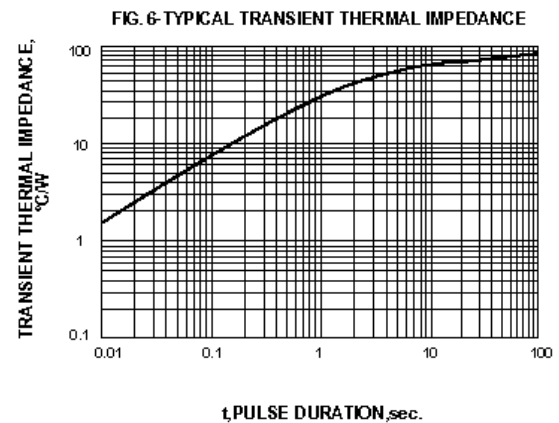
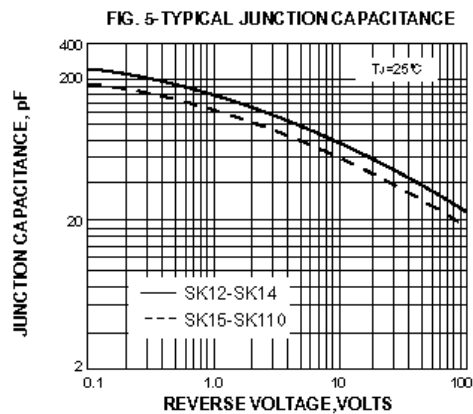
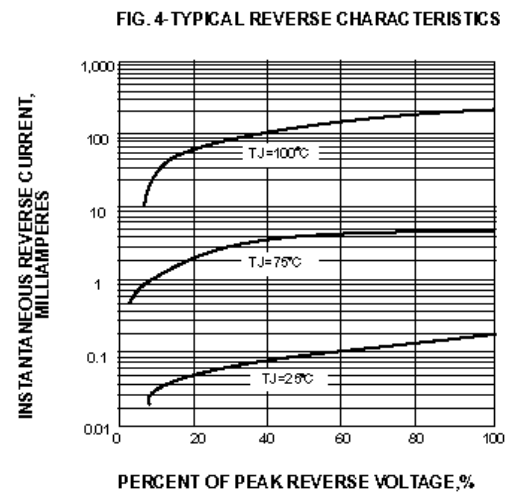
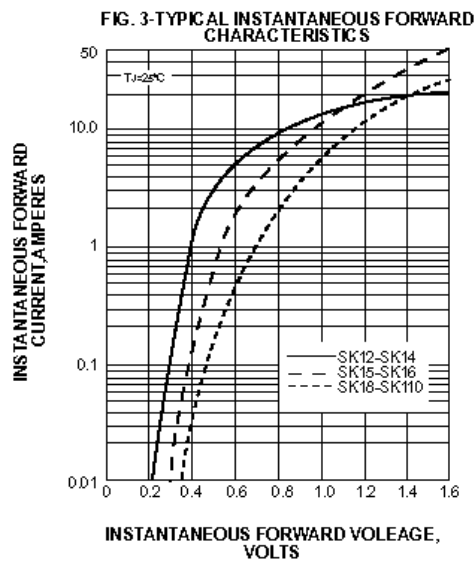
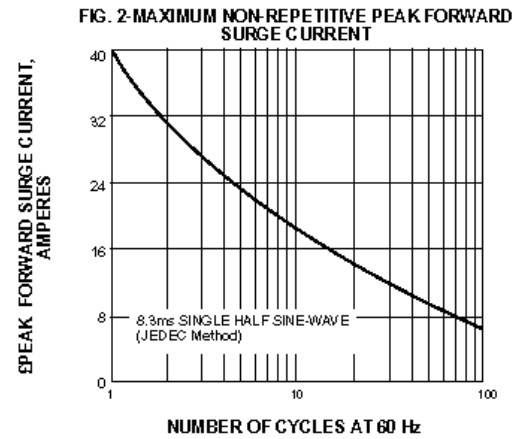
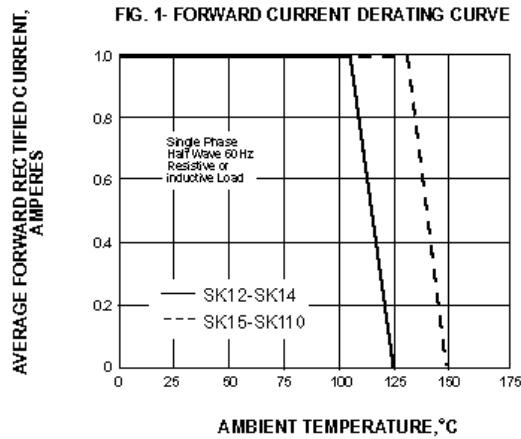
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C.

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

TOP DYNAMIC



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