SK12BD THRU SK110BD

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Reverse Voltage - 20 to 100 V

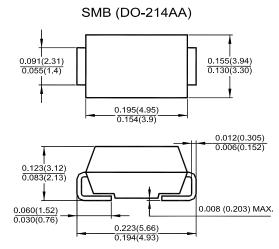
Forward Current - 1 A

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 %.

Tor capacitive load current derate by 20 76.	1		1	1	i	1	1		
Parameter	Symbols	SK12BD	SK13BD	SK14BD	SK15BD	SK16BD	SK18BD	SK110BD	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	٧
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							Α
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	40						А	
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	I _R	0.5						mA	
at Rated DC Blocking Voltage T _a = 100 °C	-10	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	Tj	- 6	- 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.

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