

SK12 THRU SK110

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage – 20 to 100 V

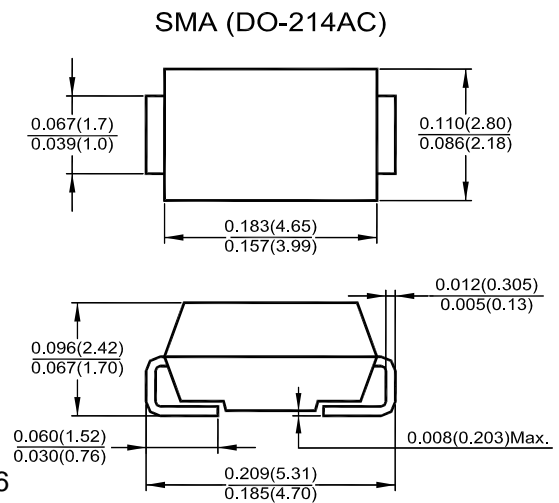
Forward Current – 1 A

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:** SMA (DO-214AC) 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)

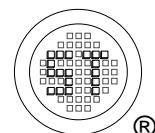
Maximum Ratings and Electrical Characteristics

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	SK12	SK13	SK14	SK15	SK16	SK18	SK110	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	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	0.55			0.75		0.85		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.5							mA
T _A = 25 °C T _A = 100 °C		20							
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.



Dated : 14/04/2008

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