

SK12 THRU SK110

SCHOTTKY BARRIER RECTIFIER

VOLTAGE: 20-100V

CURRENT: 1.0A

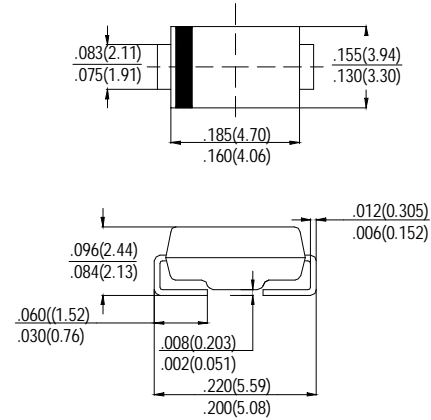
FEATURES

- High reliability
- Low leakage
- Low forward voltage
- High current capability
- Super fast switching speed
- High surge capability
- Good for switching mode circuit

MECHANICAL DATA

- **Case:** Molded plastic
- **Epoxy:** UL94V-0 rate flame retardant
- **Lead:** MIL-STD- 202E, Method 208 guaranteed
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 0.093 grams

SMB (DO-214AA)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	SK12	SK13	SK14	SK15	SK16	SK18	SK110	units
Maximum Recurrent 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 $T_A=55^\circ\text{C}$	I_o	1.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	30							A
Maximum Instantaneous forward Voltage at 1.0A DC	V_F	0.45	0.55	0.6	0.72	0.85			V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_A=25^\circ\text{C}$	I_R	1.0							mA
Maximum Full Load Reverse Current Full Cycle Average, .375"(9.5mm) lead length at $T_L=75^\circ\text{C}$		100							
Typical Junction Capacitance (Note 2)	C_J	15				10			pF

Notes: 1. Test Conditions: $I_F=0.5A$, $I_R=1.0A$, $I_{RR}=0.25A$
 2. Measured at 1MHz and applied reverse voltage of 4.0 volts