

# DC COMPONENTS CO., LTD.

## RECTIFIER SPECIALISTS

SK12 THRU SK18

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 80 Volts

CURRENT - 1.0 Ampere

#### **FEATURES**

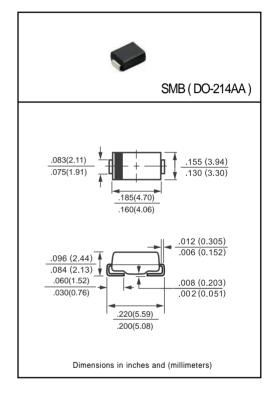
- \* Ideal for surface mounted applications
- \* Low leakage current
- \* Glass passivated junction

## MECHANICAL DATA

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \*Terminals: Solder plated, solderable per
  - MIL-STD-750, Method 2026
- \* Polarity: As marked \* Mounting position: Any \* Weight: 0.093 gram

#### 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, derate current by 20%.



		SYMBOL	SK12	SK13	SK14	SK15	SK16	SK18	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature		lo	1.0					Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	50					Amps	
Maximum Instantaneous Forward Voltage at 1.0A DC		VF		0.55	0.70 0.85		0.85	Volts	
Maximum DC Reverse Current	@TA = 25°C	- IR	1.0					mAmps	
at Rated DC Blocking Voltage	@TA = 100°C		20						
Typical Thermal Resistance (Note 2)		RθJA	95					°C/W	
Typical Junction Capacitance (Note 1)		CJ	130						pF
Operating Temperature Range		TJ	-65 to + 125						۰c
Storage Temperature Range		Тѕтс	-65 to + 150					۰c	

NOTES: 1. Thermal Resistance (Junction to Ambient).

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. P.C.B Mounted with 0.2X0.2\*(5.0X5.0mm2) copper pad area.



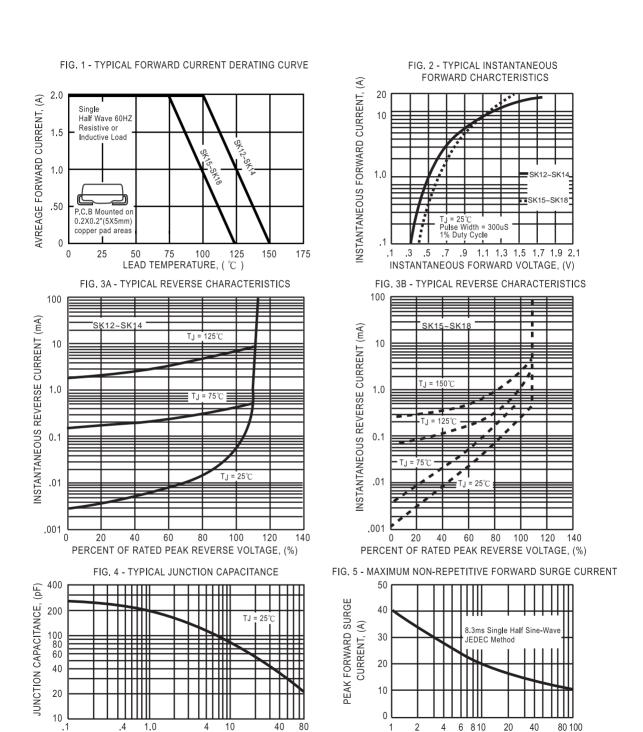








### RATING AND CHARACTERISTIC CURVES (SK12 THRU SK18)





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REVERSE VOLTAGE, (V)





NUMBER OF CYCLES AT 60Hz

