



DC COMPONENTS CO., LTD.
RECTIFIER SPECIALISTS

**SK12
THRU
SK110**

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE RANGE - 20 to 100 Volts **CURRENT - 1.0 Ampere**

FEATURES

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

MECHANICAL DATA

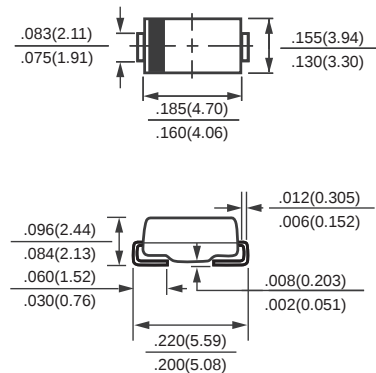
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.093 gram

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%.



SMB (DO-214AA)



Dimensions in inches and (millimeters)

		SYMBOL	SK12	SK13	SK14	SK15	SK16	SK18	SK110	UNITS
Maximum Recurrent Peak Reverse Voltage		VRRM	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		VRMS	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		VDC	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature		IO	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC		VF	0.55			0.70		0.85		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TA = 25°C	IR	1.0							mAmps
	@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	-55 to +125							°C
Storage Temperature Range		TSTG	-55 to +150							°C

- 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 SK110)

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

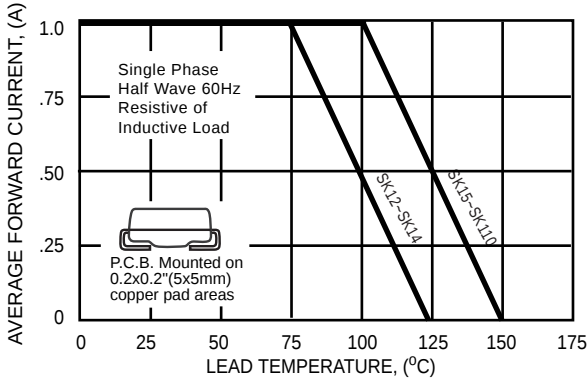


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

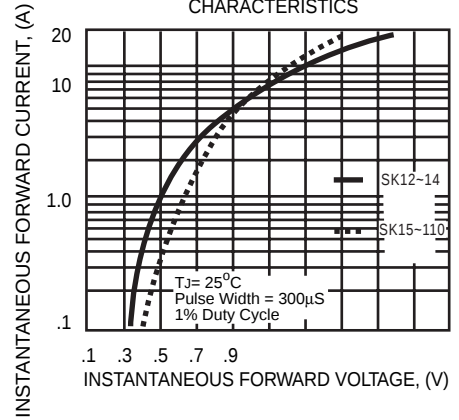


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

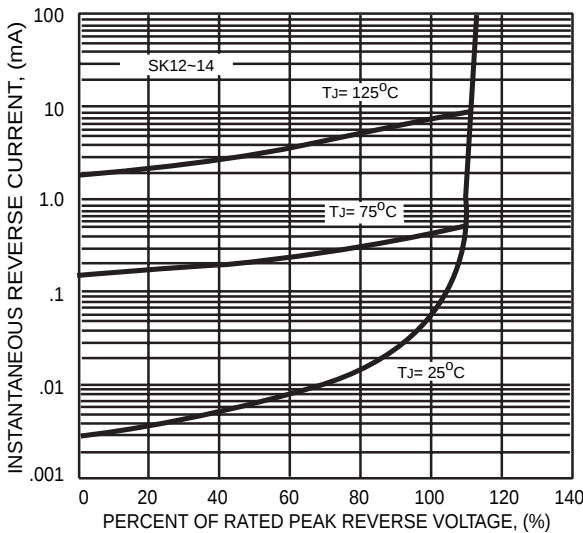


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

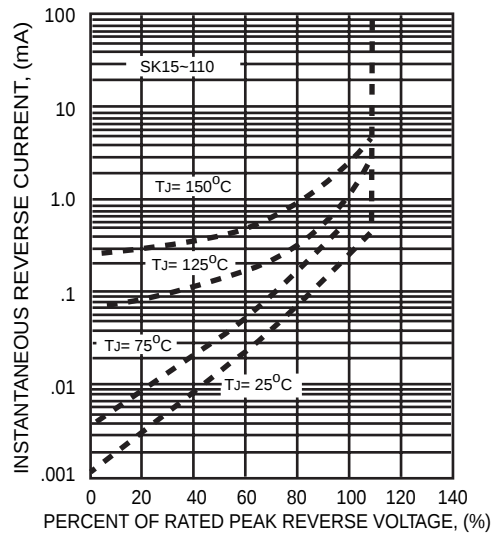


FIG.5 - TYPICAL JUNCTION CAPACITANCE

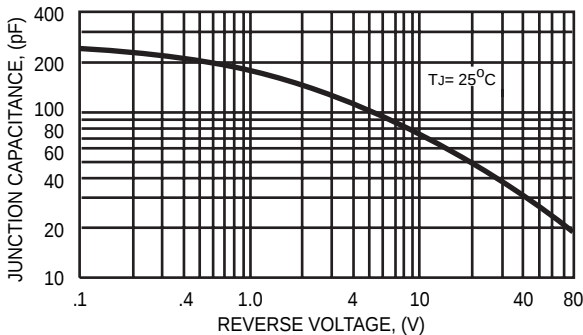
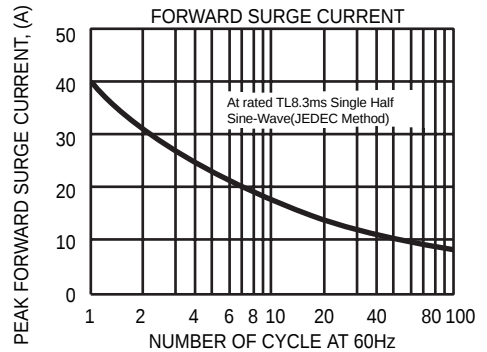


FIG.6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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