



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK12
THRU
SK120

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts

CURRENT - 1.0 Ampere

FEATURES

- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction
- * Low forward voltage drop
- * Low power loss, high efficiency
- * High surge capability

MECHANICAL DATA

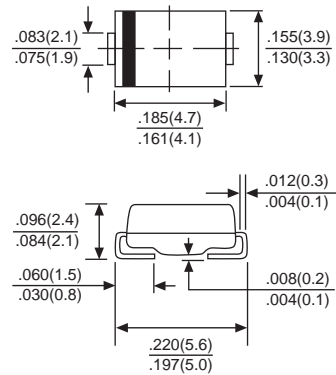
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, 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	SK115	SK120	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	50	60	80	100	150	200	Volts
Maximum RMS Voltage	VRMS	14	21	28	35	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	Vdc	20	30	40	50	60	80	100	150	200	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		0.95		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	1.0									mAmps
	@ TA = 100°C	10									
Typical Thermal Resistance (Note 1)	RθJL	25									°C/W
Storage Operating Temperature Range	TJ, TSTG	-55 to +150									°C

- NOTES : 1. Thermal Resistance (Junction to Lead)
 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
 3. P.C.B. mounted with 0.28x0.28"(7.0x7.0mm²) copper pad area.

RATING AND CHARACTERISTIC CURVES (SK12 THRU SK120)

FIG.1
TYPICAL FORWARD CURRENT DERATING CURVE

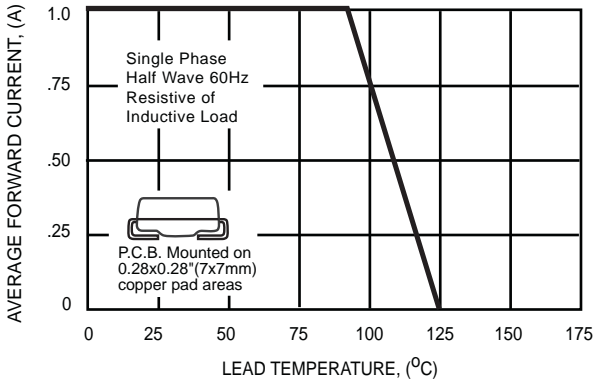


FIG.2
TYPICAL REVERSE CHARACTERISTICS

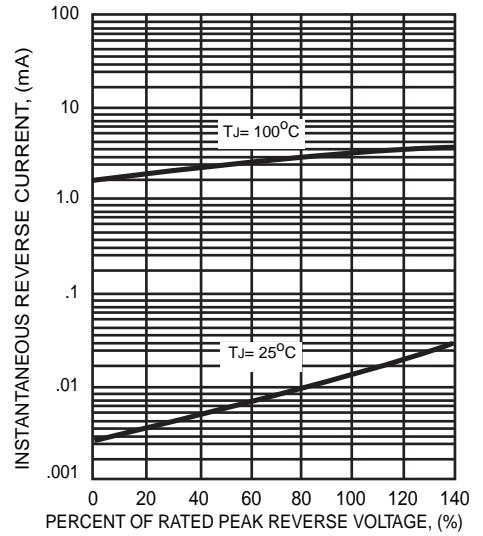


FIG.3
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

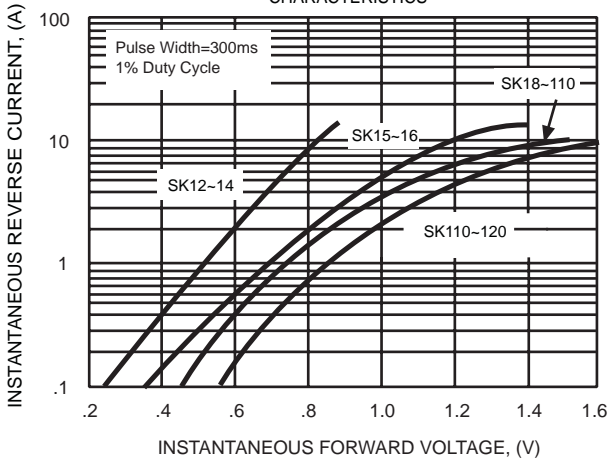
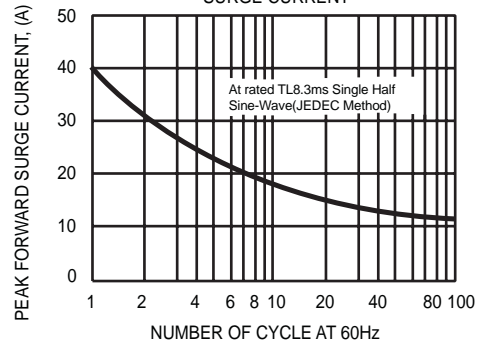


FIG.4
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



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