



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK12FL
THRU
SK120FL

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
- * Low profile space
- * Low forward voltage drop
- * High forward surge capability
- * Glass passivated junction

MECHANICAL DATA

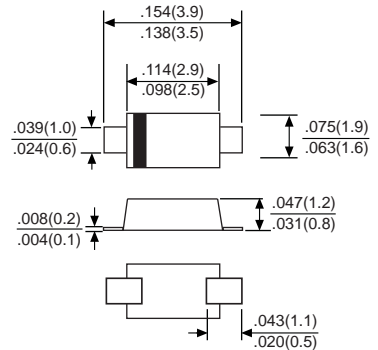
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.017 gram

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%.



SOD-123FL



Dimensions in inches and (millimeters)

	SYMBOL	SK12FL	SK13FL	SK14FL	SK15FL	SK16FL	SK18FL	SK110FL	SK115FL	SK120FL	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	20									°C/W
Storage Operating Temperature Range	TJ, TSTG	-55 to +150									°C

NOTES :1. Mounted on FR-4 P.C.B. with 0.9X1.5 mm copper pads areas.

RATING AND CHARACTERISTIC CURVES (SK12FL THRU SK120FL)

FIG. 1
TYPICAL FORWARD CURRENT
DERATING CURVE

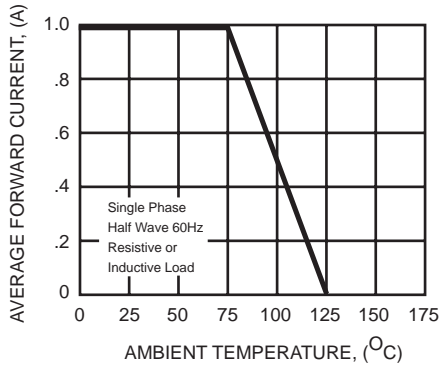


FIG. 2
MAXIMUM NON-REPETITIVE FOREARD
SURGE CURRENT

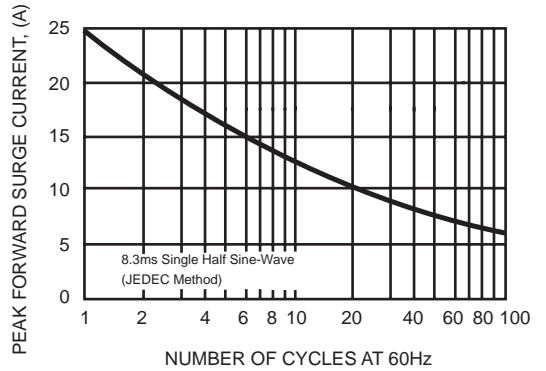


FIG.3
TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS

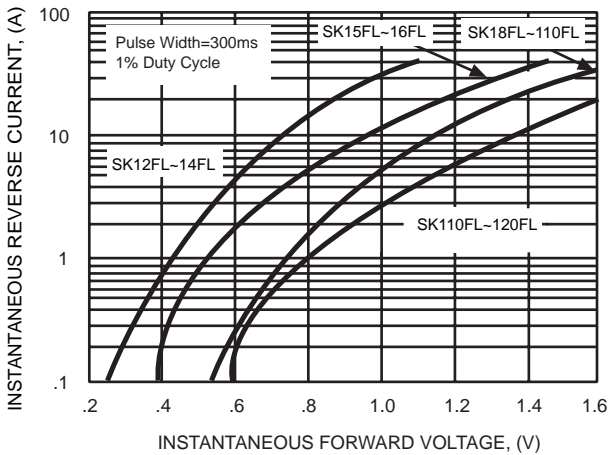
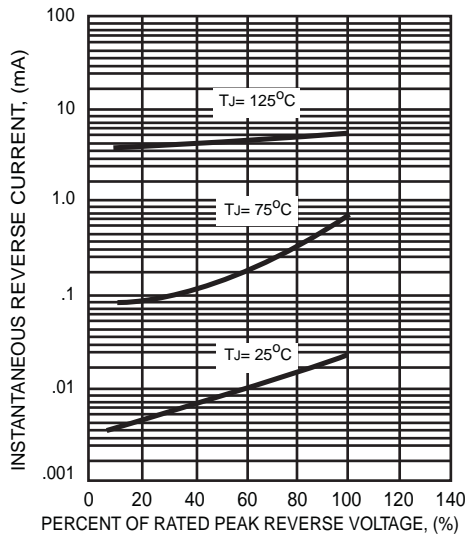


FIG.4
TYPICAL REVERSE CHARACTERISTICS



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