



DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK22FL
THRU
SK220FL

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts

CURRENT - 2.0 Amperes

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

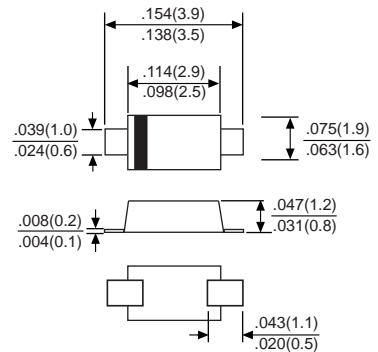
- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 0.017 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



SOD-123FL



Dimensions in inches and (millimeters)

	SYMBOL	SK22FL	SK23FL	SK24FL	SK25FL	SK26FL	SK28FL	SK210FL	SK215FL	SK220FL	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 TA=75°C	IO	2.0									Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40									Amps
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	0.55		0.70		0.85		0.95		Volts	
Maximum DC Reverse Current at Rated DC Blocking Voltage	@ TA = 25°C	2.0									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 (SK22FL THRU SK220FL)

FIG. 1
TYPICAL FORWARD CURRENT DERATING CURVE

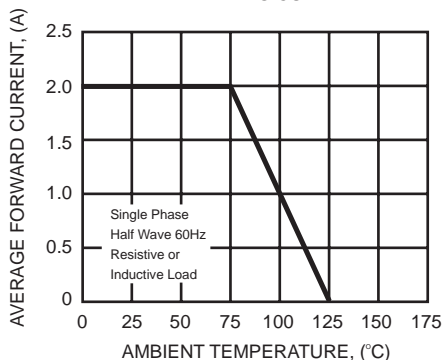


FIG. 2
TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

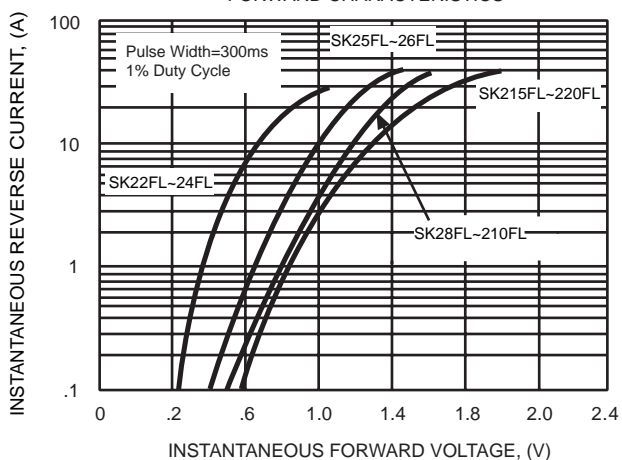


FIG. 3
MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

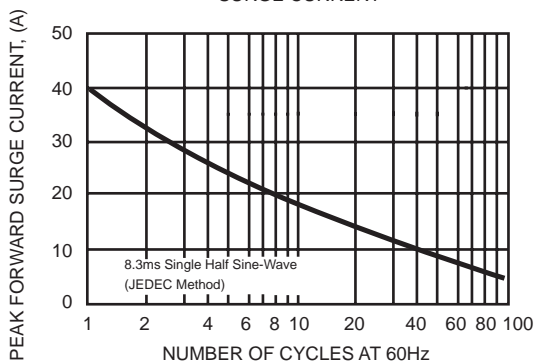
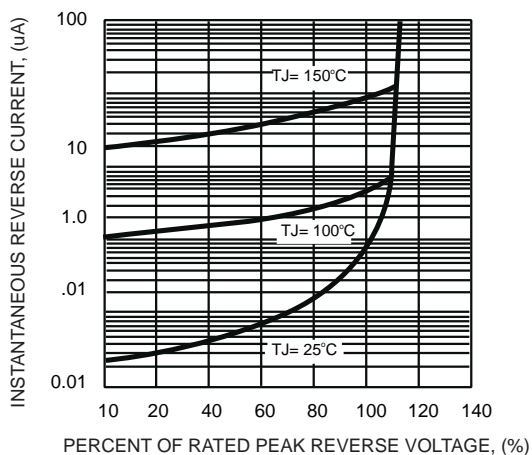


FIG. 4
TYPICAL REVERSE CHARACTERISTICS



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