DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK32FL THRU SK320FL

TECHNICAL SPECIFICATIONS OF SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 20 to 200 Volts *CURRENT - 3.0 Amperes*

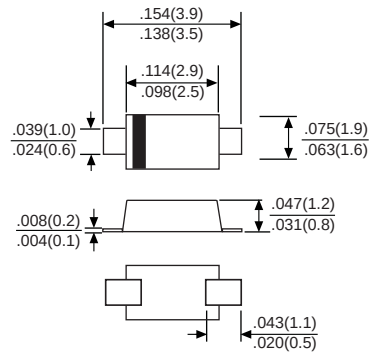
FEATURES

* 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

SOD-123FL



Dimensions in inches and (millimeters)

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%.

		SYMBOL	SK32 FL	SK33 FL	SK34 FL	SK35 FL	SK36 FL	SK38 FL	SK310 FL	SK312 FL	SK315 FL	SK320 FL	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	100	120	150	200	Volts
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	70	84	105	140	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	100	120	150	200	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature T_A=75°C		I_O	3.0										Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	70										Amps
Maximum Instantaneous Forward Voltage at 3.0A DC		V_F	0.55			0.70		0.85			0.95		Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T_A = 25°C	I_R	2.0										mAmps
	@T_A = 100°C		10										
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	65										°C/W
Typical Junction Capacitance (Note 2)		C_J	250										pF
Operating Temperature Range		T_J	-55 to +125										°C
Storage Temperature Range		T_{STG}	-55 to +150										°C

NOTES :1. P.C.B Mounted with 0.2X0.2"(5X5mm^2) cooper pad areas.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

RATING AND CHARACTERISTIC CURVES (SK32FL THRU SK320FL)

FIG. 1
TYPICAL FORWARD CURRENT
DERATING CURVE

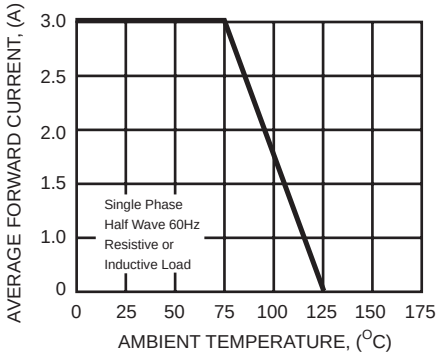


FIG. 2
MAXIMUM NON-REPETITIVE FOREARD
SURGE CURRENT

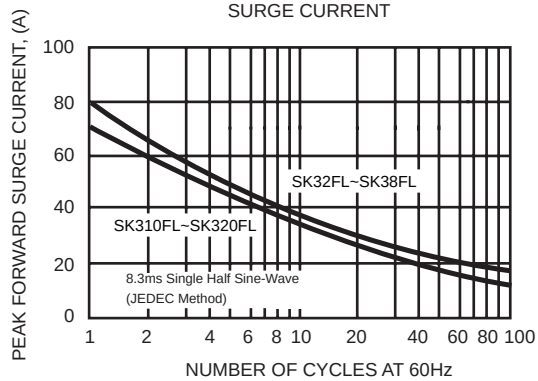


FIG. 3
TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

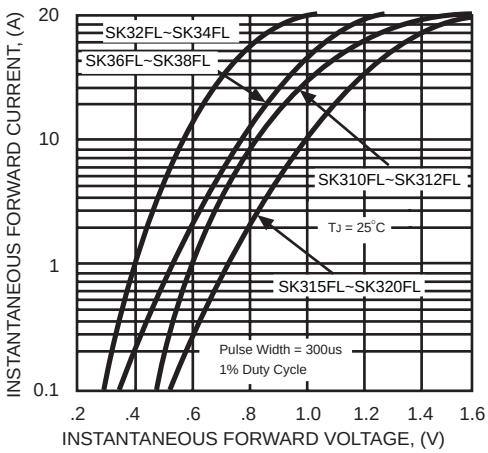
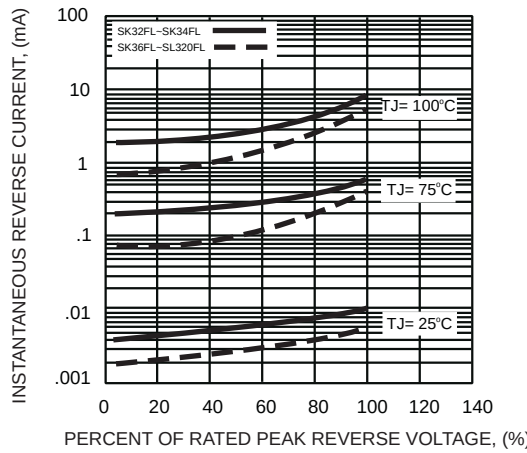


FIG. 4
TYPICAL REVERSE CHARACTERISTICS



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