DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

SK22FL THRU SK210FL

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE - 50 to 100 Volts *CURRENT - 2.0 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

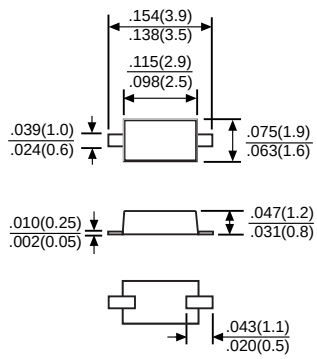
* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Terminals: Solder plated solderable per MIL-STD-750, Method 2026
* Polarity: As marked
* Mounting position: Any
* Weight: 0.017 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 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	UNITS
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage		V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current at Derating Lead Temperature		I_O	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		I_{FSM}	40							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC		V_F	0.55			0.70		0.85		Volts
Maximum DC Reverse Current	@T_A = 25°C	I_R	1.0							mAmps
at Rated DC Blocking Voltage	@T_A = 100°C		10							
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	28							°C/W
Operating Temperature Range		T_J	-55 to +125							°C
Storage Temperature Range		T_{STG}	-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 SK210FL)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

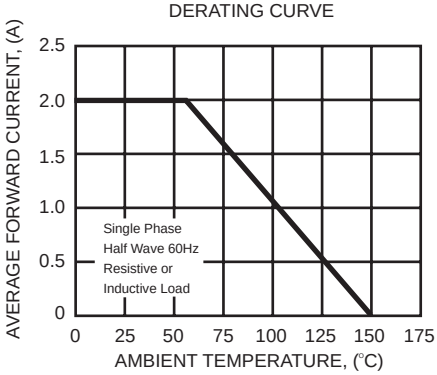


FIG. 2 - MAXIMUM NON-REPETITIVE FOREARD SURGE CURRENT

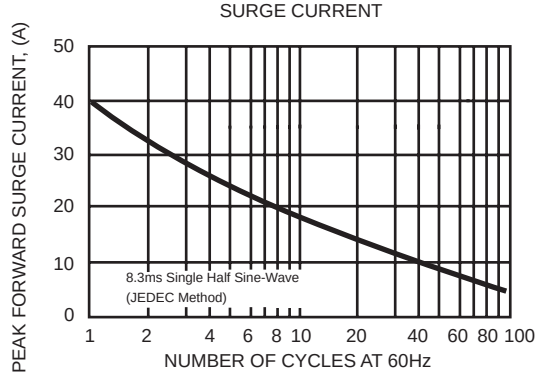


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

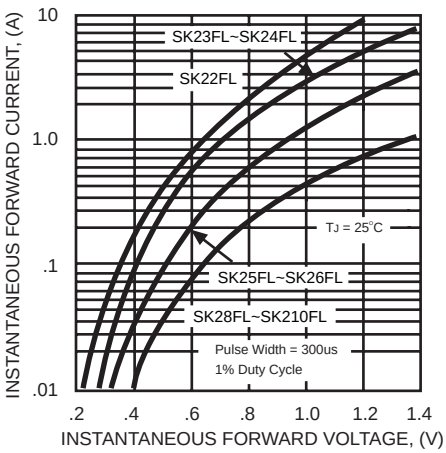


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

