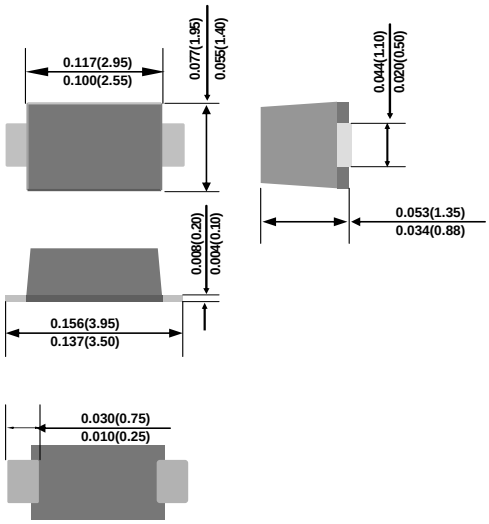
SS220FL THRU SS2100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 2.0 Ampere

SOD-123FL/DO219AB



Dimensions in inches and (millimeters)

FEATURES

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- Low power loss, high efficiency
- Pb free product : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case: JEDEC SOD-123/DO-219AB, Molded plastic over passivated junction
Terminals: Solderable per MIL-STD-750，Method 2026
Approx. Weight: 0.0168 gram
Standard Packaging : 8mm tape(EIA-481)
Marking codes : SS220FL :GM
SS230FL :GN
SS240FL :GP
SS260FL :GQ
SS2100FL:GR

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

PARAMETER	*SYMBOLS*	SS220FL	SS230FL	SS240FL	SS260FL	SS2100FL	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	60	100	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	42	70	Volts
Minimum Reverse Breakdown Voltage at = 500μA	V_R	20	30	40	60	100	Volts
Average Rectified current at T_L =75℃	$I_{(AV)}$	2.0					Amp
Non-repetitive Peak Forward Surge Current at 1=8.3ms	I_{FSM}	50					Amps
Maximum Forward Voltage at I_F=2.0A	V_F	0.55			0.70	0.85	Volts
Reverse Leakage Current at V_{RRM}	I_R	500					μA
Typical Junction Capacitance (NOTE 1)	C_J	60	60	60	50	40	pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	180					℃/W
Operating Junction Temperature Range	T_J	125					℃
Storage Temperature Range	T_{STG}	-50 ～ +125					℃

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Mounted with minimum recommended padsize，PCBoard FR4.
3. T_J=25℃ unless otherwise specified.

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RATINGS AND CHARACTERISTIC CURVES SS220FL THRU SS2100FL

FIG. 1- FORWARD CURRENT DERATING CURVE

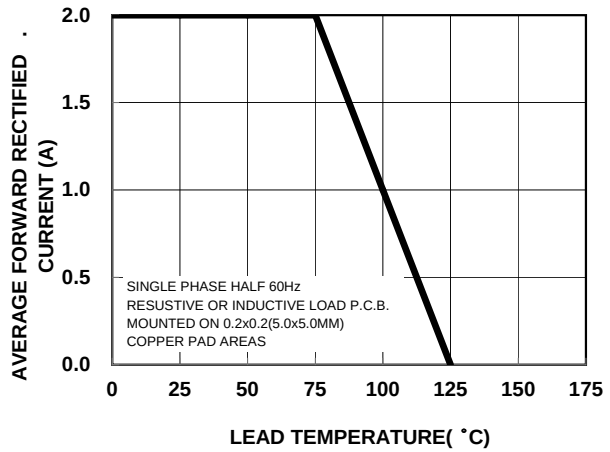

FIG. 2-TYPICAL JUNCTION RATINGS

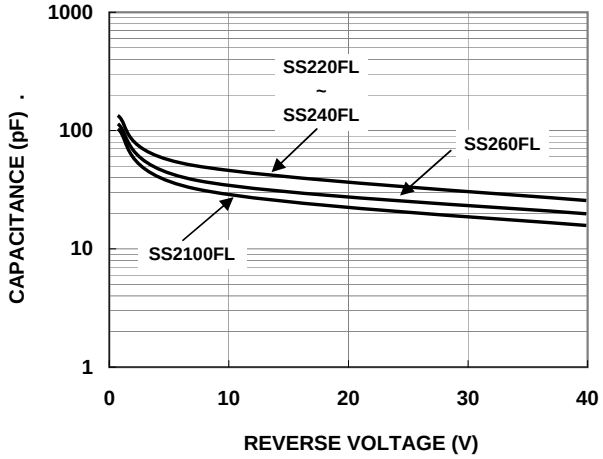

FIG. 3-TYPICAL REVERSE CHARACTERISTICS

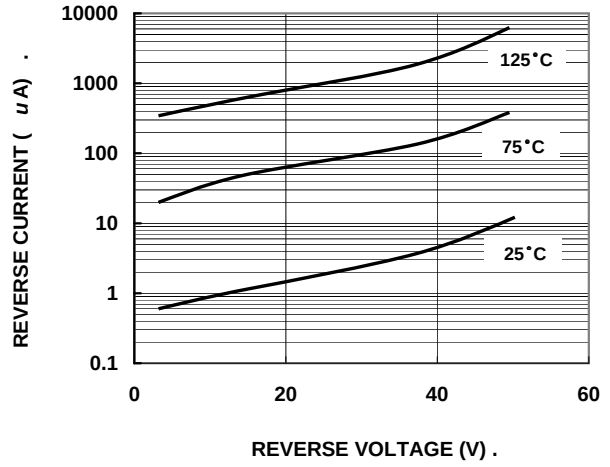

FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS