

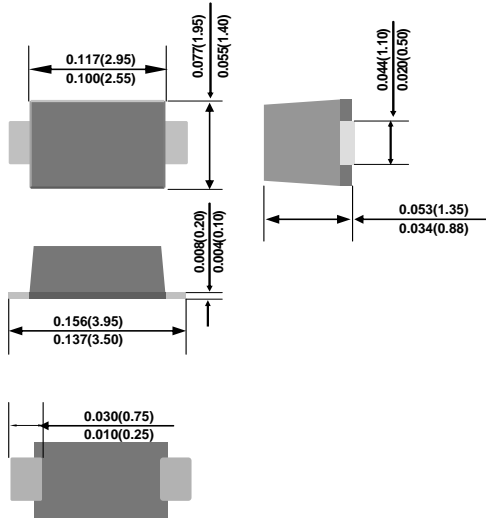


SS120FL THRU SS1100FL

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts Forward Current - 1.0 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 : SS120FL :G2
SS130FL :G3
SS140FL :G4
SS160FL :G6
SS1100FL:G10

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 current derate by 20%.

PARAMETER	SYMBOLS	SS120FL	SS130FL	SS140FL	SS160FL	SS1100FL	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 _c =75°C	I(AV)	1.0					Amp
Non-repetitive Peak Forward Surge Current at 1=8.3ms	I _{FSM}	40					Amps
Maximum Forward Voltage	V _F	0.45	0.55	0.70	0.85		Volts
		at I _F =1.0A					
		at I _F =3.0A	0.75	-			
Reverse Leakage Current at V _{RRM}	I _R	500					μA
Typical Junction Capacitance (NOTE 1)	C _J	60			50	40	pF
Typical Thermal Resistance (NOTE 2)	R _{θJA}	180					°C/W
Operating Junction Temperature Range	T _J	125					°C
Storage Temperature Range	T _{STG}	-50 ~ +150					°C

- 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°C unless otherwise specified.



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RATINGS AND CHARACTERISTIC CURVES SS120FL THRU SS1100FL

FIG. 1- FORWARD CURRENT DERATING CURVE

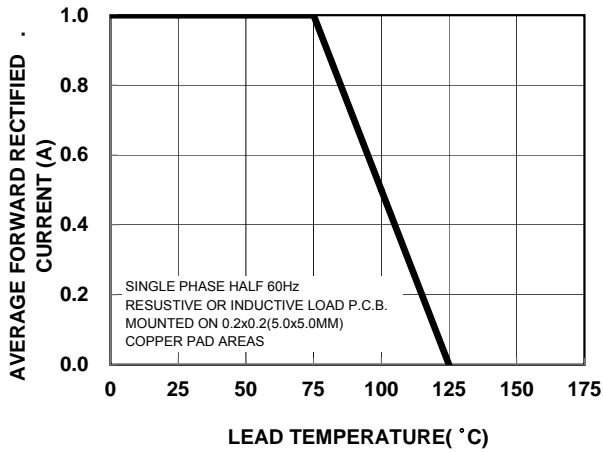


FIG. 2-TYPICAL JUNCTION RATINGS

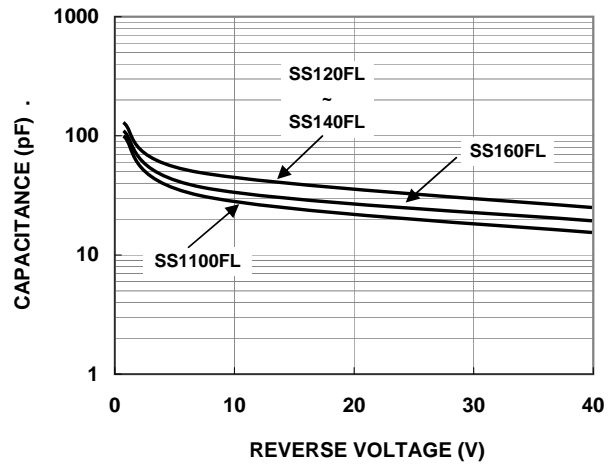


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

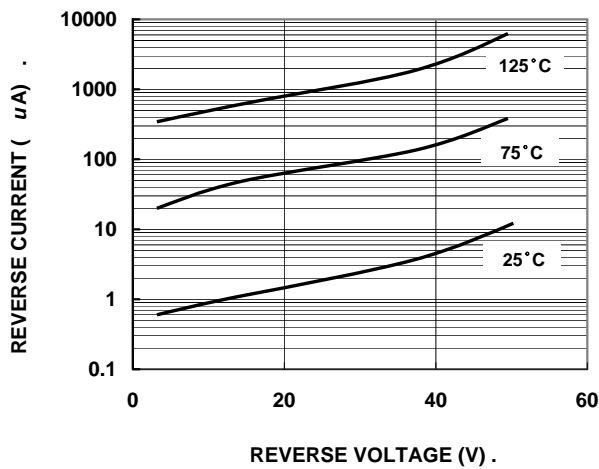


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

