

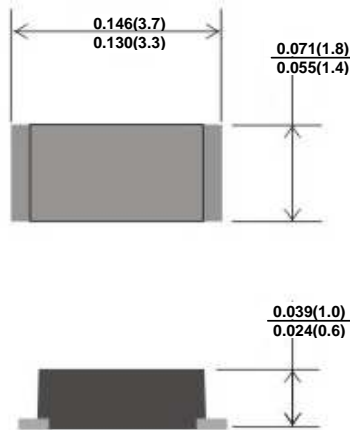


SS220FH THRU SS2100FH

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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

SOD-123FH



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-123FH, Molded plastic over passivated junction

Terminals: Solderable per MIL-STD-750 Method 2026

Approx. Weight: 0.0168 gram

Standard Packaging : 8mm tape(EIA-481)

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	SS220FH	SS230FH	SS240FH	SS260FH	SS280FH	SS2100FH	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	60	80	100	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	42	56	70	Volts
Minimum Reverse Breakdown Voltage at = 500 μ A	V_R	20	30	40	60	80	100	Volts
Average Rectified current at $T_L = 75^\circ\text{C}$	$I_{F(AV)}$	2.0						Amp
Non-repetitive Peak Forward Surge Current at 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	40						Amps
Maximum Forward Voltage at $I_F = 2.0\text{A}$	V_F	0.55		0.70		0.85		Volts
Reverse Leakage Current at V_{RRM}	I_R	500						μ A
Typical Junction Capacitance (NOTE 1)	C_J	60		50		40		pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	180						$^\circ\text{C/W}$
Operating Junction Temperature Range	T_J	125						$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-50 ~ +125						$^\circ\text{C}$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Mounted with minimum recommended padsize PCBoard FR4.

3. $T_J = 25^\circ\text{C}$ unless otherwise specified.



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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

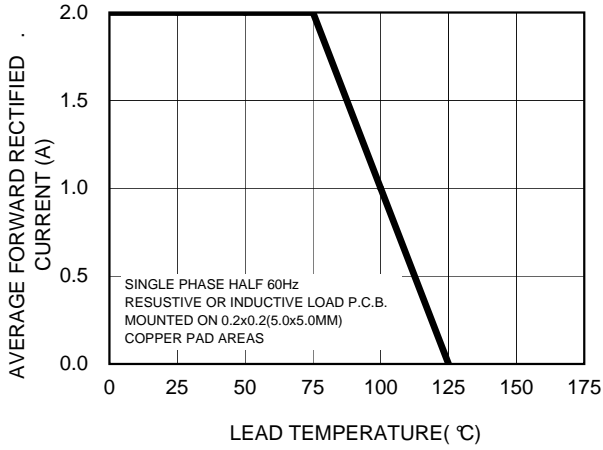


FIG. 2-TYPICAL JUNCTION RATINGS

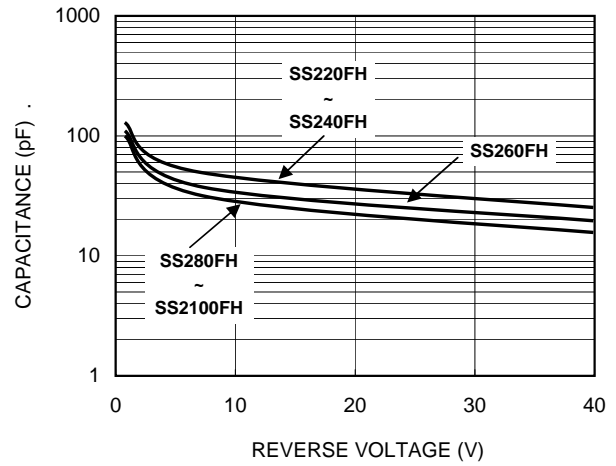


FIG. 3-TYPICAL REVERSE CHARACTERISTICS

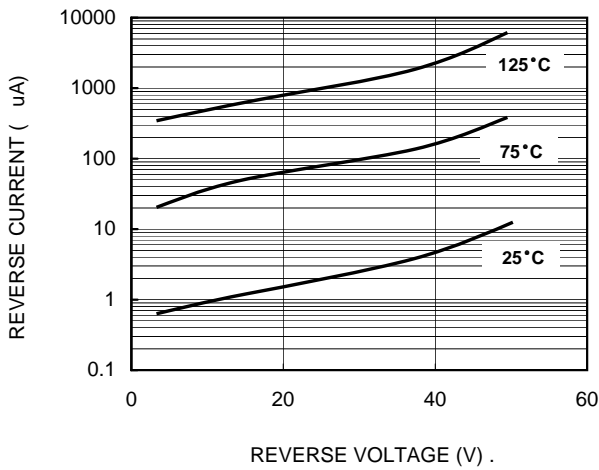


FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

