



SS34LAFH

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 40 VOLTS
FORWARD CURRENT: 3.0 AMPERE

FEATURES

- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- Suffix "H" indicates Halogen-free parts, ex. SS34LAFH.

MECHANICAL DATA

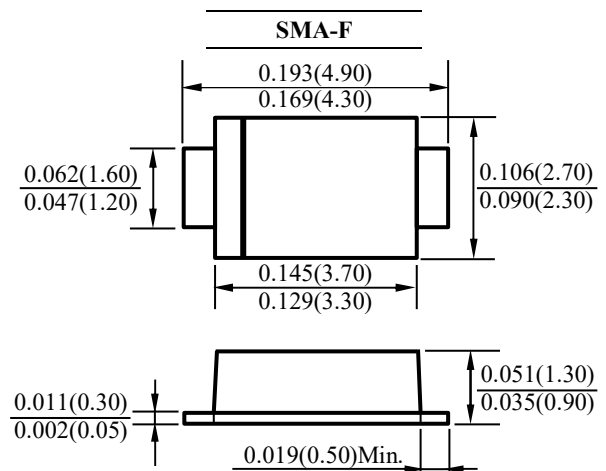
Case : Molded plastic, SMA-F

Terminals: Solder plated, solderable per

MIL-STD-750, method 2026 guaranteed

Polarity : Indicated by cathode band

Mounting Position : Any



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%.

Parameter	Symbols	SS34LAFH	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	Volts
Maximum RMS Voltage	V_{RMS}	28	Volts
Maximum DC Blocking Voltage	V_{DC}	40	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length (see fig 1)	$I_{(AV)}$	3.0	Amp
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	80.0	Amp
Maximum instantaneous forward voltage at 3.0A	V_F	0.45	Volts
Maximum Reverse Current at $T_J=25^{\circ}C$ at Rated DC Blocking Voltage $T_J=100^{\circ}C$	I_R	1 50	mAmp
Typical Junction Capacitance (Note 1)	C_J	320	pF
Typical Thermal Resistance (Note 2)	$R_{\theta JL}$	20	$^{\circ}C/W$
Operating Junction Temperature Range	T_J	-55 to +150	$^{\circ}C$
Storage Temperature Range	T_{stg}	-55 to +150	

Note :

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

2. P.C.B. mounted with 0.2x0.2 (5.0x5.0mm) copper pad areas



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RATINGS AND CHARACTERISTIC CURVES

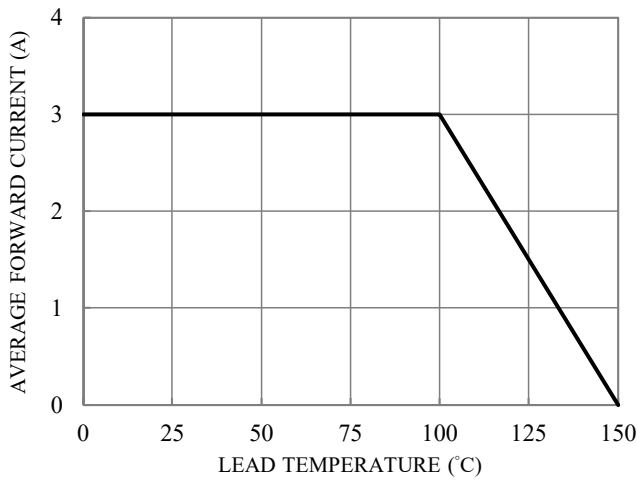


Fig.1-FORWARD CURRENT DERATING CURVE

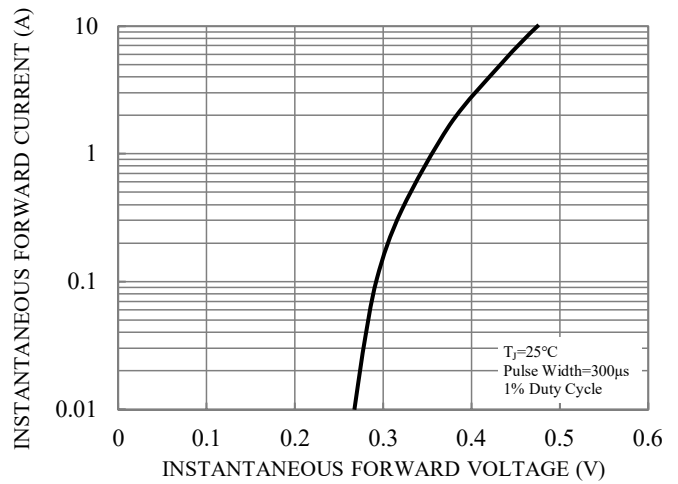


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

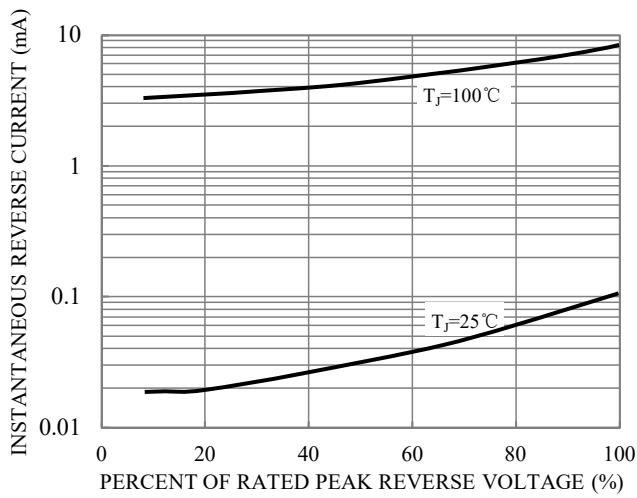


Fig.3-TYPICAL REVERSE CHARACTERISTICS

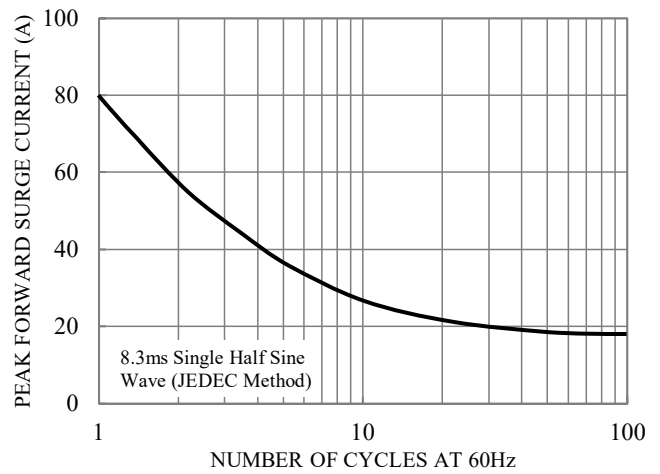


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT