



SS34FLH THRU SS310FLH

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

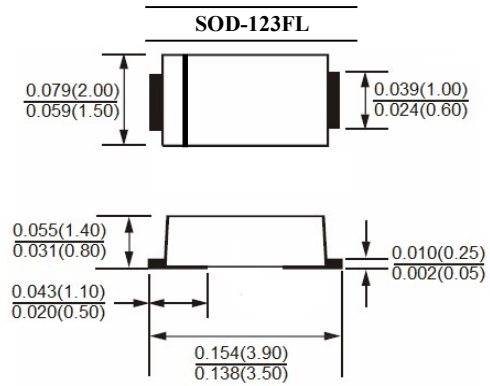
REVERSE VOLTAGE: 40 to 100 VOLTS
FORWARD CURRENT: 3.0 AMPERE

FEATURES

- Low profile surface mounted application in order to optimize board space.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.
- Suffix "H" indicates Halogen-free parts, ex. SS34FLH

MECHANICAL DATA

Case : Molded plastic, SOD-123FL
 Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed
 Polarity : Color band denotes cathode end



Dimensions in inches and (millimeters)

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	SS34FLH	SS36FLH	SS310FLH	Units
Marking Code		34	36	310	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	60	100	Volts
Maximum RMS Voltage	V_{RMS}	28	42	70	Volts
Maximum DC Blocking Voltage	V_R	40	60	100	Volts
Maximum Average Forward Rectified Current (See Fig. 1)	$I_{(AV)}$	3.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60			Amp
Maximum Forward Voltage at 3.0A $T_A=25^\circ\text{C}$	V_F	0.55	0.72	0.85	Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=100^\circ\text{C}$	I_R	0.5 20			mAmp
Typical Thermal Resistance from Junction to Lead (Note 1)	$R_{\theta JL}$	30			$^\circ\text{C}/\text{W}$
Operating Junction Temperature Range	T_J	-55 to +125	-55 to +150		$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150			

NOTE:

1- Mounted on epoxy glass PCB with 3mmx3mm Cu pads ($\geq 40 \mu\text{m}$ thick)



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RATINGS AND CHARACTERISTIC CURVES

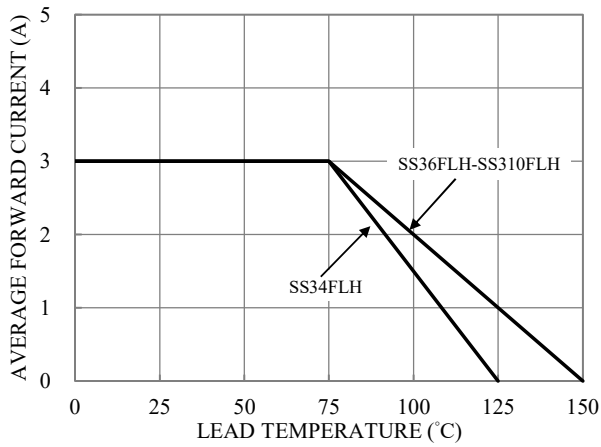


Fig.1-FORWARD CURRENT DERATING CURVE

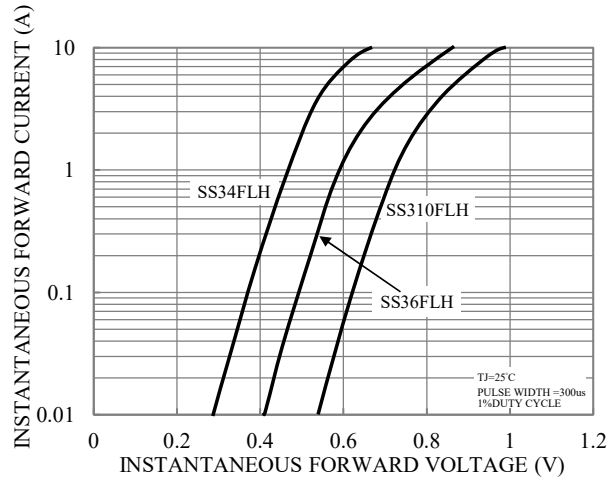


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

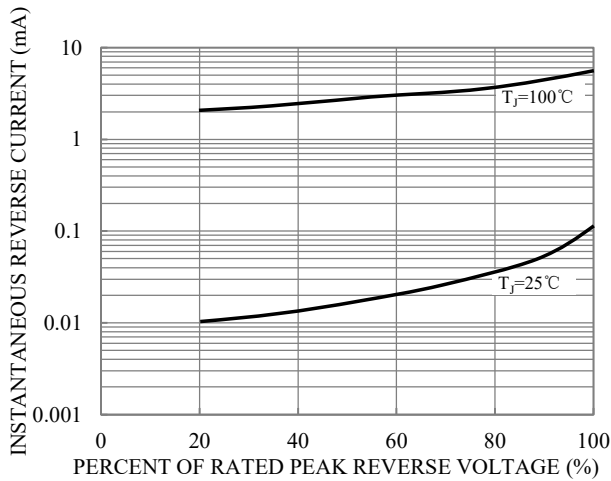


Fig.3-TYPICAL REVERSE CHARACTERISTICS

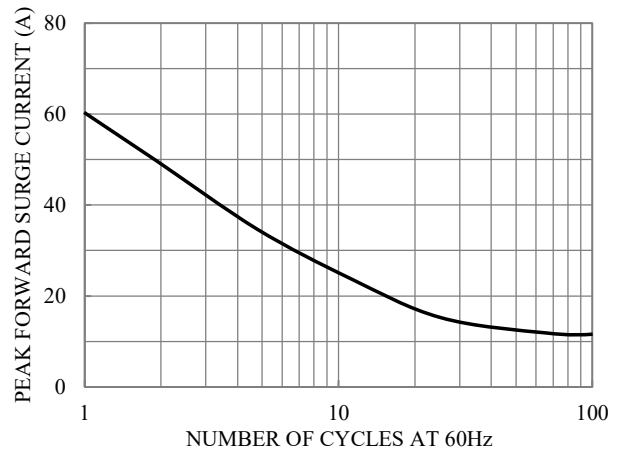


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT