



SS56LAFH

LOW VF SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 60 VOLTS
FORWARD CURRENT: 5.0 AMPERE

FEATURES

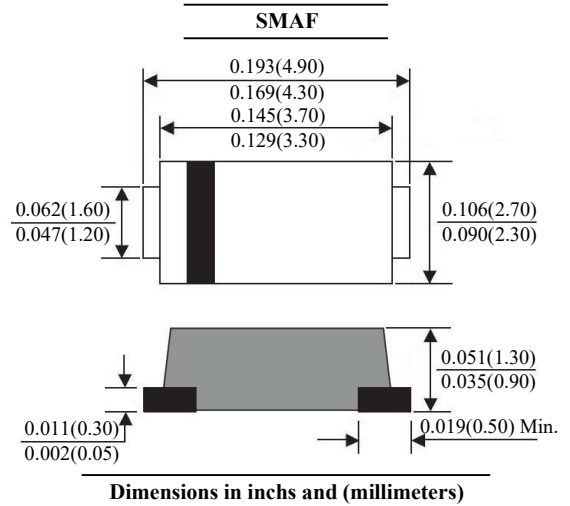
- Low forward voltage drop
- Low power loss,high efficiency
- High forward surge current capability
- Suffix "H" indicates Halogen-free parts, ex. SS56LAFH

MECHANICAL DATA

Case : Molded plastic, SMAF

Terminals : Solder plated, solderable per MIL-STD-750,
 method 2026 guaranteed

Polarity : Color band denotes cathode end



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	SS56LAFH	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	60	Volts
Maximum RMS Voltage	V_{RMS}	42	Volts
Maximum DC Blocking Voltage	V_{DC}	60	Volts
Maximum Average Forward Rectified Current	$I_{(AV)}$	5	Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80	Amp
Maximum Forward Voltage at 5.0A	V_F	0.55	Volts
Maximum Reverse Current at $T_j=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_j=100^\circ\text{C}$	I_R	0.5 50.0	mAmp
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	65	°C/W
Operating Junction Temperature Range	T_j	-65 to +150	°C
Storage Temperature Range	T_{stg}	-65 to +150	°C

NOTES:

1- Thermal resistance from junction to ambient mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas



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RATINGS AND CHARACTERISTIC CURVES

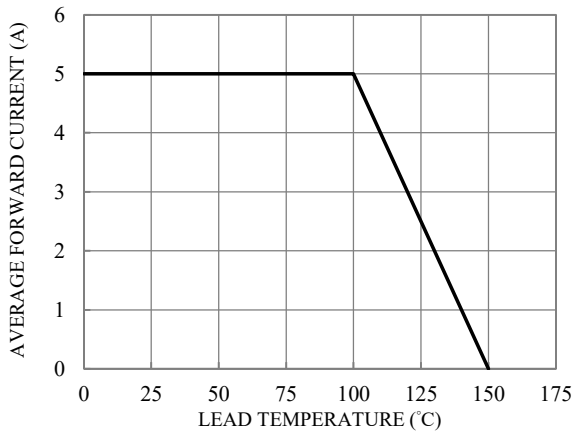


Fig.1-FORWARD CURRENT DERATING CURVE

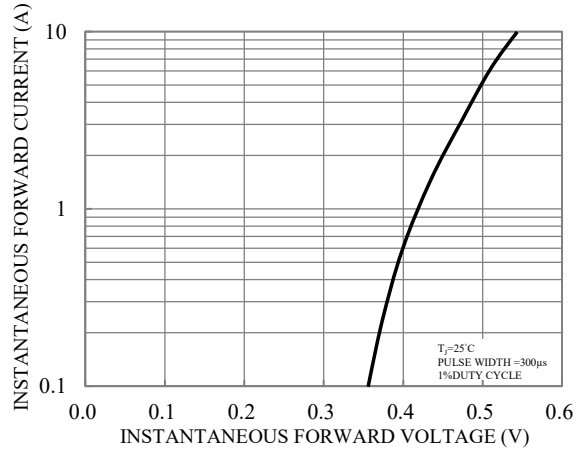


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

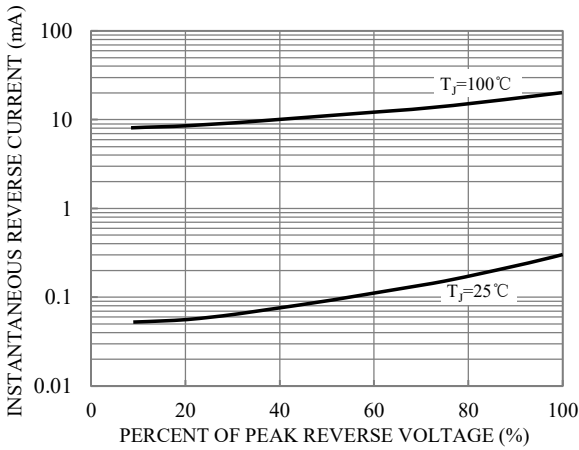


Fig.3-TYPICAL REVERSE CHARACTERISTICS

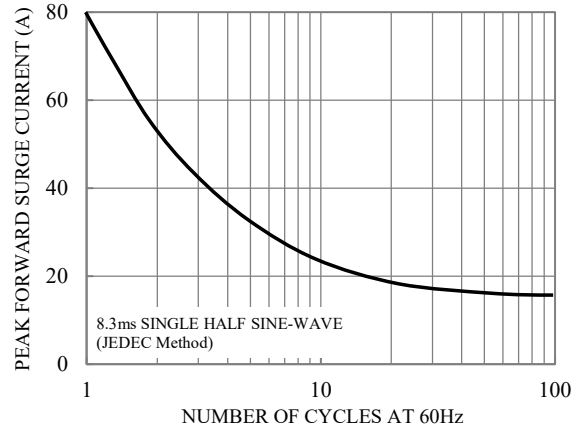


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT