

SX3XLF SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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SX32LF THRU SX310LF



康比電子
HORNBY ELECTRONIC

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 20 to 100 VOLTS

FORWARD CURRENT: 3.0 AMPERE

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- High current capacity
- Built-in strain relief
- Low profile package
- Metal to silicon rectifier. majority carrier conduction
- High surge capacity
- Low power loss, high efficiency
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering : 250°C /10 seconds at terminals

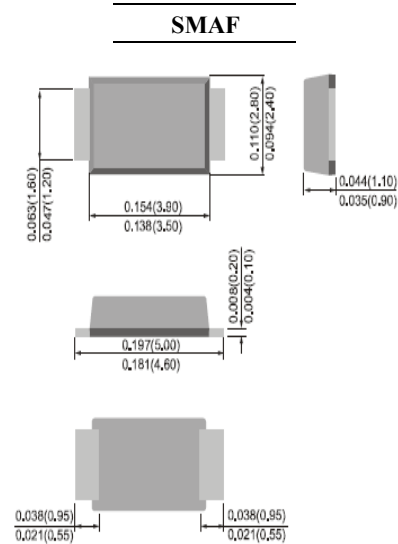
MECHANICAL DATA

Case: Molded plastic, SMAF

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

Polarity: Color band denotes cathode end

Packaging: 12mm tape per EIA STD RS-481



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%.

	Symbols	SX32LF	SX34LF	SX36LF	SX310LF	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	100	Volts
Maximum RMS Voltage	V_{RMS}	14	28	42	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	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}	80				Amp
Maximum Forward Voltage at 3.0A (Note 1)	V_F	0.45		0.55	0.70	Volts
Maximum Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage $T_A=125^\circ\text{C}$	I_R	0.5				mAmp
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60				°C/W
	$R_{\theta JL}$	20				
Operating Junction Temperature Range	T_J	-55 to +150				°C
Storage Temperature Range	T_{stg}	-55 to +150				°C

NOTES:

1- Pulse test: 300µs pulse width, 1% duty cycle

2- P.C.B. mounted with 0.55 x 0.55" (14 x 14mm) Copper Pad Areas

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- FORWARD CURRENT DERATING CURVE

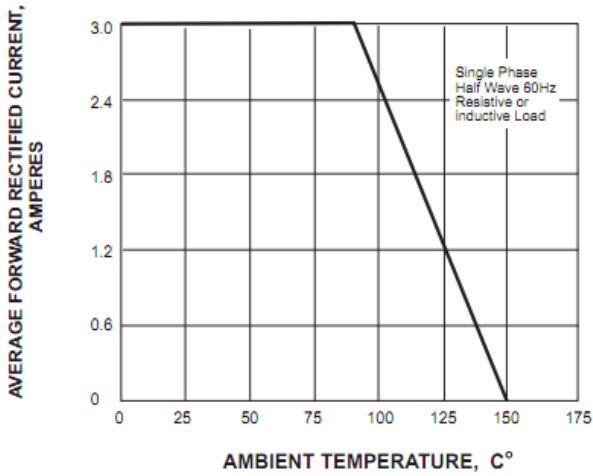


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

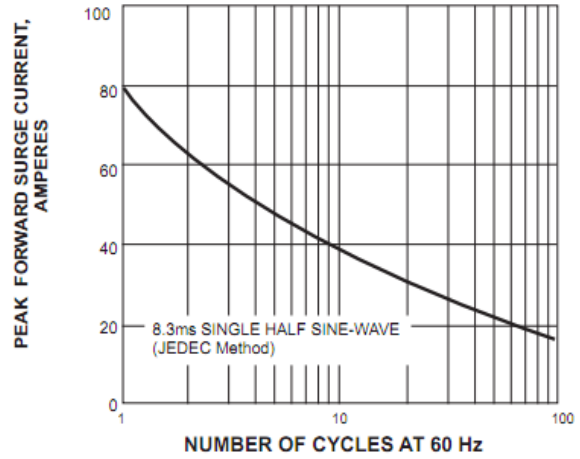


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

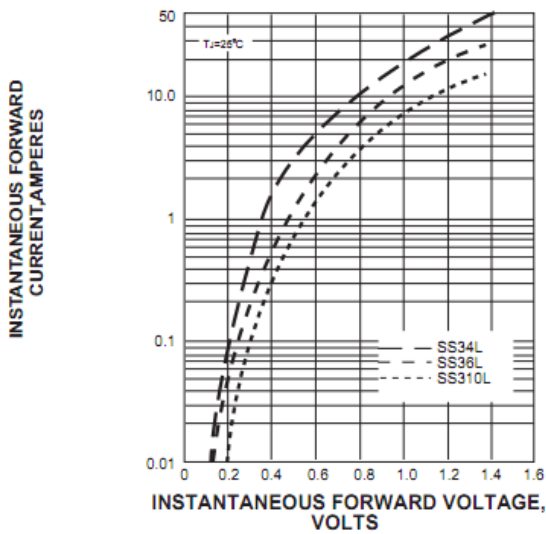


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

