SS54L THRU SS510L

SURFACE MOUNT LOW VF SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE: 40 to 100 VOLTS FORWARD CURRENT: 5.0 AMPERE

FEATURES

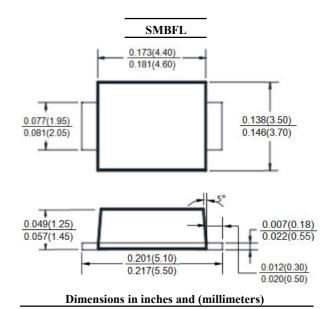
- · Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- · For surface mounted applications
- · High current capability, low VF
- · Built-in strain relief
- · Low profile package
- · Metal to silicon rectifier. majority carrier conduction
- · High surge capacity
- · Low power loss, high efficiency
- · For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

Case: Molded plastic, SMBFL
Terminals: Pure tin plated, lead free
Polarity: Indicated by cathode band

Packaging: 12mm tape per EIA STD RS-481

Weight: 0.060gram



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	SS54L	SS56L	SS510L	Units
Maximum Recurrent Peak Reverse Voltage	Vrrm	40	60	100	Volts
Maximum RMS Voltage	Vrms	28	42	70	Volts
Maximum DC Blocking Voltage	VDC	40	60	100	Volts
Maximum Average Forward Rectified Current at T _L (See Fig. 1)	I(AV)	5.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	120			Amp
Maximum Forward Voltage at 5.0A (Note 1)	V _F	0.45	0.60	0.75	Volts
Maximum Reverse Current at T _A =25℃	In	0.5			mAmp
at Rated DC Blocking Voltage T _A =125℃	IR	20		10	
Typical Thermal Resistance (Note 2)	RθJA	55			°C/W
	Røjl	20			
Operating Junction Temperature Range	TJ	-50 to +150			ဗ
Storage Temperature Range	Tstg	-50 to +150			ာ

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

2- P.C.B. mounted with 0.4 x 0.4" (10.0 x 10.0mm) Copper Pad Areas

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1- MAXIMUM FORWARD CURRENT DERATING

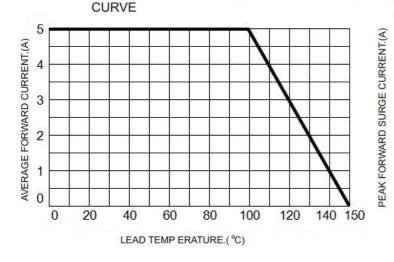


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

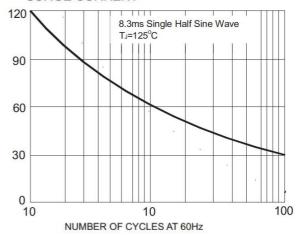


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

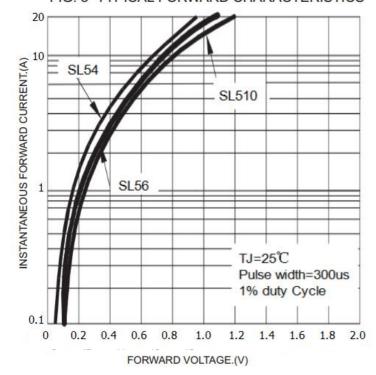


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

