



DATA SHEET

SEMICONDUCTOR

SL32B~SL34B

LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER



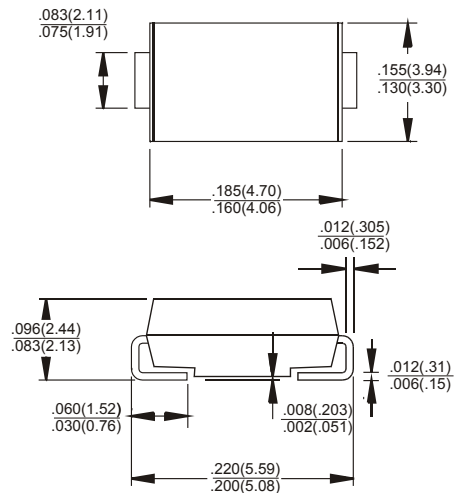
VOLTAGE - 20 to 40 Volts CURRENT - 3.0 Amperes

FEATURES

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

SMB/DO-214AA Unit:inch(mm)

- High temperature soldering : 260°C / 10 seconds at terminals
- Pb free product at available : 99% Sn above meet RoHS environment substance directive request



MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode
- Standard packaging: 16mm tape (EIA-481)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Resistive or inductive load.

	SYMBOLS	SL32B	SL33B	SL34B	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	20	30	40	Volts
Maximum RMS Voltage	VRMS	14	21	28	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	Volts
Maximum Average Forward Rectified Current at TL (See Figure 1)	I(AV)	3.0			Amps
Peak Forward Surge Current 8.3ms single half sinewave superimposed on rated load(JEDEC method)	IFSM	100.0			Amps
Maximum Instantaneous Forward Voltage at 3.0A (Note 1)	VF	0.38		0.40	Volts
Maximum DC Reverse Current TA=25°C (Note 1)	IR	1.0			mA
At Rated DC Blocking Voltage TA=100°C		20.0			
Maximum Thermal Resistance (Note 2)	RθJL RθJA	17 75			°C /W
Operating Junction Temperature Range	TJ	-55 to +150			°C
Storage Temperature Range	TSTG	-55 to +150			°C
Marking Code		SL32B	SL33B	SL34B	

NOTES:

1. Pulse Test with PW=300 us , 1% Duty Cycle.
2. Mounted on P.C.Board with 14mm2 (.013mm thick) copper pad areas.

DEVICE CHARACTERISTICS

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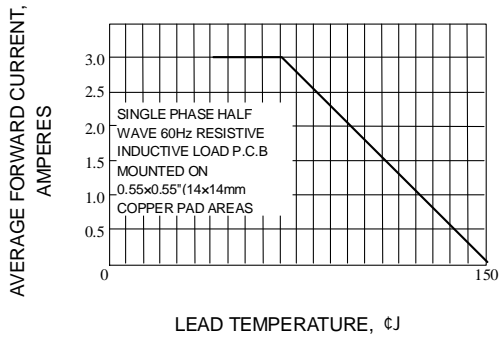
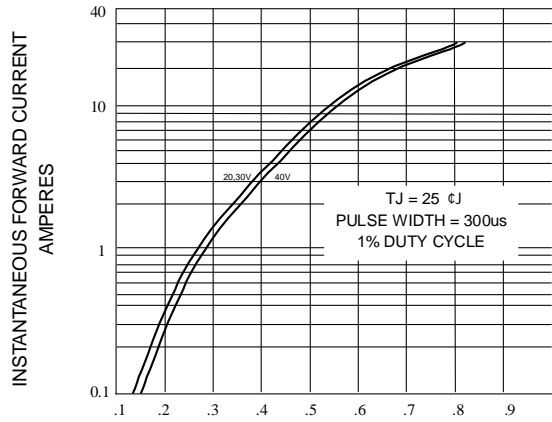


Fig. 1-FORWARD CURRENT DERATING CURVE



TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

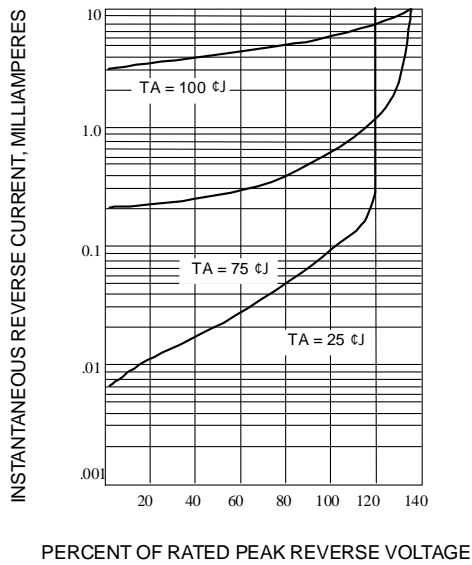


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

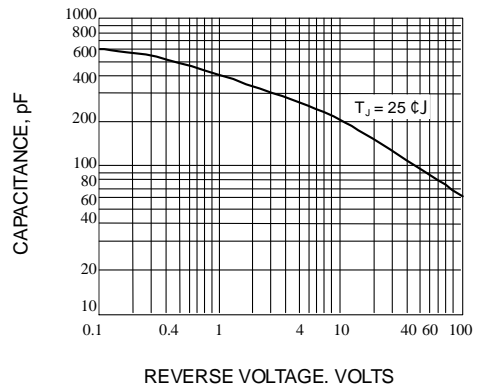


Fig. 4-TYPICAL JUNCTION CAPACITANCE

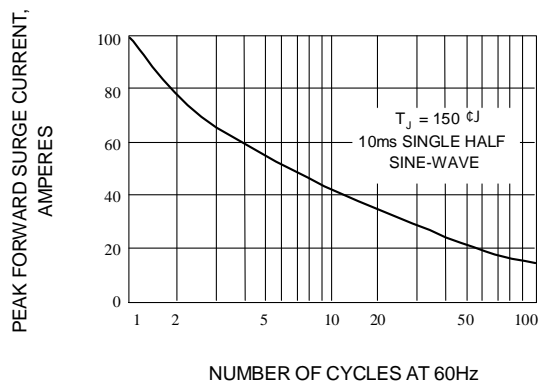


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT