SL32 THRU SL34 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-O
- 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 V_F
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 260 ¢J/10 seconds at terminals

MECHANICAL DATA

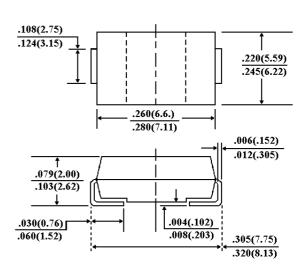
Case: JEDEC DO-214AB molded plastic

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

- Polarity: Color band denotes cathode
- Standard packaging: 16mm tape (EIA-481)

Weight: 0.007 ounce, 0.21 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ¢J ambient temperature unless otherwise specified.

Resistive or inductive load.

	SYMBOLS	SL32	SL33	SL34	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at T∟ (See Figure 1)	I _(AV)		3.0		Amps
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load(JEDEC method)	I _{FSM}	100.0			Amps
Maximum Instantaneous Forward Voltage at 3.0A (Note 1)	V _F	0.38	0.38	0.40	Volts
Maximum DC Reverse Current $T_A=25 ^{c}J$ (Note 1) At Rated DC Blocking Voltage $T_A=100 ^{c}J$	I _R	0.5 20.0			mA
Maximum Thermal Resistance (Note 2)	R £KJL R £KJA	17 55			¢J/W
Operating Junction Temperature Range	TJ	-50 to +125			¢J
Storage Temperature Range	T _{STG}	-50 to +150			¢J

NOTES:

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



SMC/DO-214AB

RATING AND CHARACTERISTIC CURVES SL32 THRU SL34

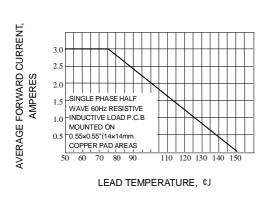
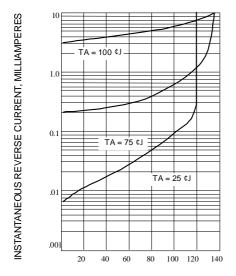
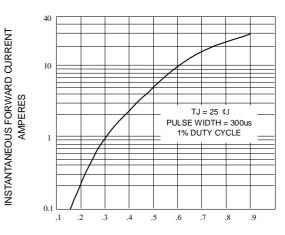


Fig. 1-FORWARD CURRENT DERATING CURVE



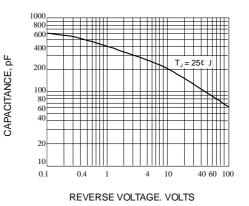
PERCENT OF RATED PEAK REVERSE VOLTAGE

Fig. 3-TYPICAL REVERSE CHARACTERISTICS



TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS







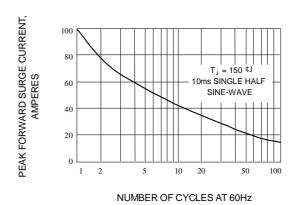


Fig. 5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

