



**TRANSYS
ELECTRONICS
LIMITED**

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
- Butt-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 μ J/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AB molded plastic

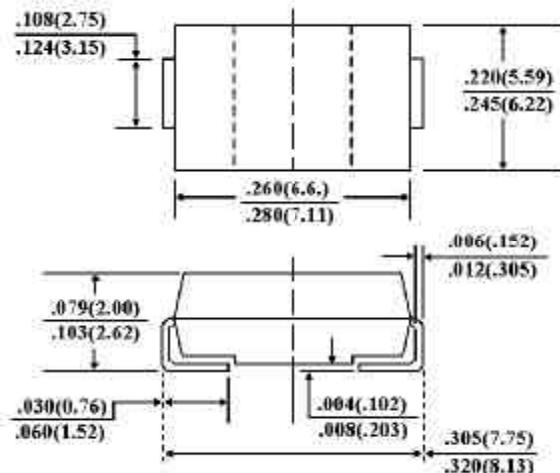
Terminals: Solder plated, solderable per MIL-STD-750,
Method 2026

Polarity: Color band denotes cathode

Standard packaging: 16mm tape (EIA-481)

Weight: 0.007 ounce, 0.21 gram

SMC/DO-214AB



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 μ 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_L (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 $T_A=25 \mu$ J (Note 1) At Rated DC Blocking Voltage $T_A=100 \mu$ J	I_R		0.5	20.0	mA
Maximum Thermal Resistance (Note 2)	$R_{\Delta KJL}$ $R_{\Delta KJA}$		17 55		μ J/W
Operating Junction Temperature Range	T_J		-50 to +125		μ J
Storage Temperature Range	T_{STG}		-50 to +150		μ J

NOTES:

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