

## SL32 THRU SL34

LOW VF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER  
 VOLTAGE - 20 to 40 Volts CURRENT - 3.0 Amperes

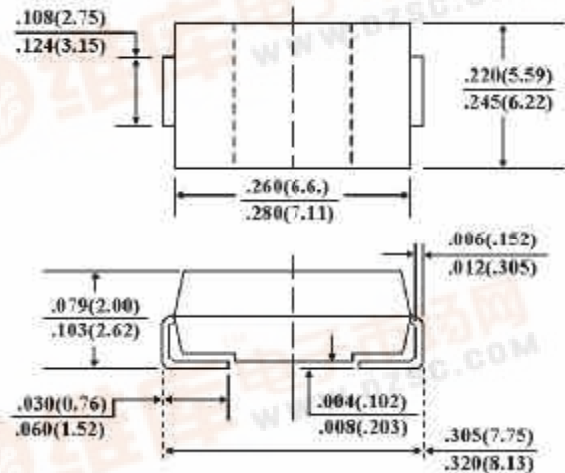
### FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- 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 °C/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 °C 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 $T_A=25$ °C (Note 1)	$I_R$	0.5			mA
At Rated DC Blocking Voltage $T_A=100$ °C		20.0			
Maximum Thermal Resistance (Note 2)	$R_{\theta KJL}$	17			°C/W
	$R_{\theta KJA}$	55			
Operating Junction Temperature Range	$T_J$	-50 to +125			°C
Storage Temperature Range	$T_{STG}$	-50 to +150			°C

### NOTES:

1. Pulse Test with PW=300 µs, 1% Duty Cycle.
2. Mounted on P.C.Board with 14mm<sup>2</sup> (.013mm thick) copper pad areas.