

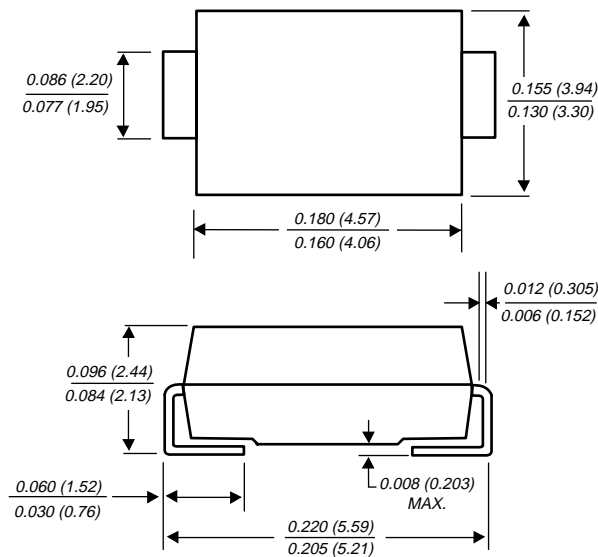
SL22 AND SL23

LOW V_F SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 30 Volts

Forward Current - 2.0 Amperes

DO-214AA



Dimensions in inches and (millimeters)

FEATURES

- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Low profile package
- ◆ Built-in strain relief
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ High current capability, low forward voltage drop
- ◆ High surge capability
- ◆ For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- ◆ Guardring for overvoltage protection
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals



MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body

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

Polarity: Color band denotes cathode end

Weight: 0.003 ounce, 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SL22	SL23	UNITS
Device marking code		L2	L3	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	Volts
Maximum RMS voltage	V_{RMS}	14	21	Volts
Maximum DC blocking voltage	V_{DC}	20	30	Volts
Maximum average forward rectified current at T_L (SEE FIG. 1)	$I_{(AV)}$	2.0		Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	60		Amps
Maximum instantaneous forward voltage at: (NOTE 1) $I_F=1.0A, T_A=125^\circ C$ $I_F=1.0A, T_A=25^\circ C$ $I_F=2.0A, T_A=125^\circ C$ $I_F=2.0A, T_A=25^\circ C$	V_F	0.280 0.395 0.320 0.440		Volts
Maximum DC reverse current (NOTE 1) $T_A=25^\circ C$ at rated DC blocking voltage $T_A=100^\circ C$	I_R	0.4 10.0		mA
Maximum thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	75 17		$^\circ C/W$
Operating junction temperature range	T_J	-55 to +125		$^\circ C$
Storage temperature range	T_{STG}	-55 to +150		$^\circ C$

NOTES:

(1) Pulse test: 300 μs pulse width, 1% duty cycle

(2) P.C.B. mounted with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SL22 AND SL23

