

Schottky Diode

SL23

30V / 2A

DATASHEET

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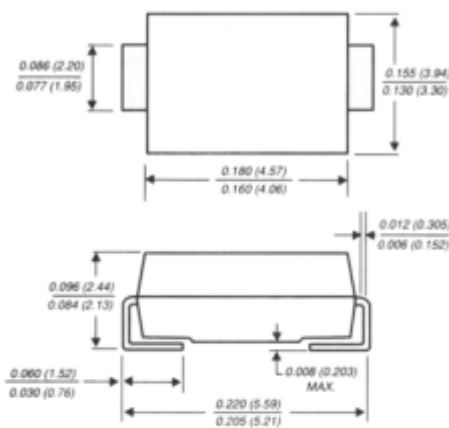
Source: General Semiconductor Databook 1998

NEW PRODUCT NEW PRODUCT NEW PRODUCT

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°C I _F =1.0A, T _A =25°C I _F =2.0A, T _A =125°C I _F =2.0A, T _A =25°C	V _F	0.280 0.395 0.320 0.440		Volts
Maximum DC reverse current (NOTE 1) T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.4 10.0		mA
Maximum thermal resistance (NOTE 2)	R _{θJA} R _{θJL}	75 17		°C/W
Operating junction temperature range	T _J	-55 to +125		°C
Storage temperature range	T _{STG}	-55 to +150		°C

NOTES:

- (1) Pulse test: 300µs 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

