

### SMD SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 20 - 30 V

CURRENT: 1.0 A

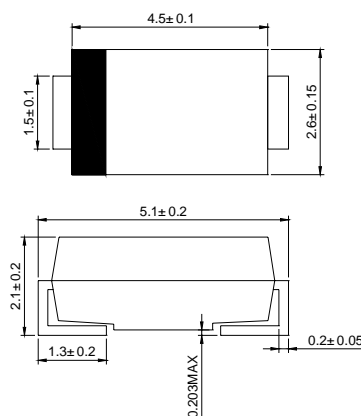
### FEATURES

- ◇ For surface mounted applications
- ◇ Low leakage
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ Easily cleaned with Alcohol, Isopropnol and similar solvents
- ◇ The plastic material carries U/L recognition 94V-0

### MECHANICAL DATA

- ◇ Case: JEDEC SMA, molded plastic
- ◇ Terminals: Solder plated, solderable per MIL- STD-202, Method 208
- ◇ Polarity: Color band denotes cathode end
- ◇ Weight: 0.002 ounces, 0.064 grams
- ◇ Mounting position: Any

SMA



Dimensions in millimeters

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate by 20%.

		SL12	SL13	UNITS
Device marking code		SL12	SL13	
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	20	30	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	V
Average forward rectified current	I <sub>F(AV)</sub>	1.0		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I <sub>FSM</sub>	50		A
Maximum instantaneous forward voltage (Note1) @ 0.1 A @ 1.0 A	V <sub>F</sub>	0.360 0.445		V
Maximum reverse current at rated DC blocking voltage @T <sub>A</sub> =25℃ @T <sub>A</sub> =100℃	I <sub>R</sub>	0.2 6.0		mA
Typical thermal resistance (Note2)	R <sub>θJL</sub>	28		℃/W
	R <sub>θJA</sub>	88		
Operating temperature range	T <sub>j</sub>	- 55 -- +125		℃
Storage temperature range	T <sub>STG</sub>	- 55 -- +150		℃

NOTE: 1. Pulse test: 300  $\mu\text{s}$  pulse width, 1% duty cycle

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

