

SMD SCHOTTKY BARRIER RECTIFIERS

VOLTAGE RANGE: 20 - 30 V

CURRENT: 2.0 A

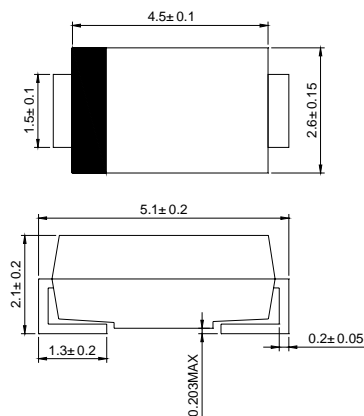
FEATURES

- ◇ 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%.

		SL22A	SL23A	UNITS
Device marking code		SL22A	SL23A	
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	V
Maximum RMS voltage	V _{RMS}	14	21	V
Maximum DC blocking voltage	V _{DC}	20	30	V
Average forward rectified current	I _{F(AV)}	2.0		A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	I _{FSM}	100		A
Maximum instantaneous forward voltage (Note1) @ 1.0 A @ 2.0A	V _F	0.395 0.440		V
Maximum reverse current @T _A =25℃ at rated DC blocking voltage @T _A =100℃	I _R	0.4 10		mA
Typical thermal resistance (Note2)	R _{θJL}	17		℃/W
	R _{θJA}	75		
Operating temperature range	T _j	- 55 -- +125		℃
Storage temperature range	T _{STG}	- 55 -- +150		℃

NOTE: 1. Pulse test: 300 μs 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

Fig. 1 — Forward Derating Curve

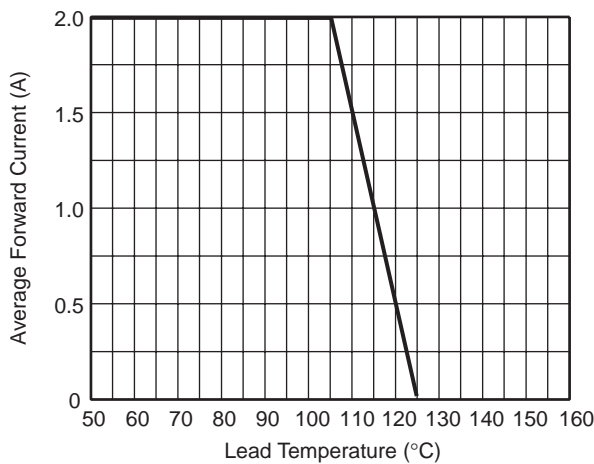


Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current

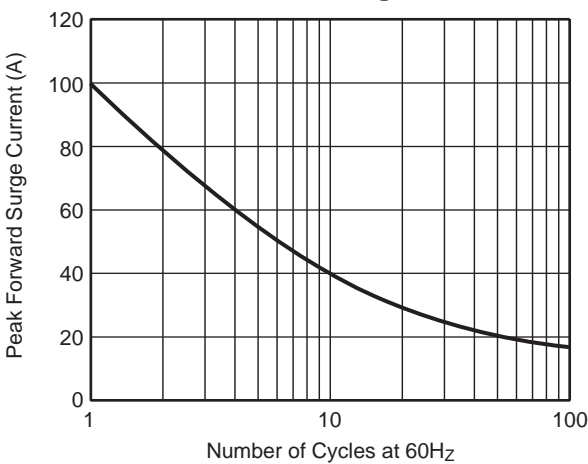


Fig. 3 — Typical Instantaneous Forward Characteristics

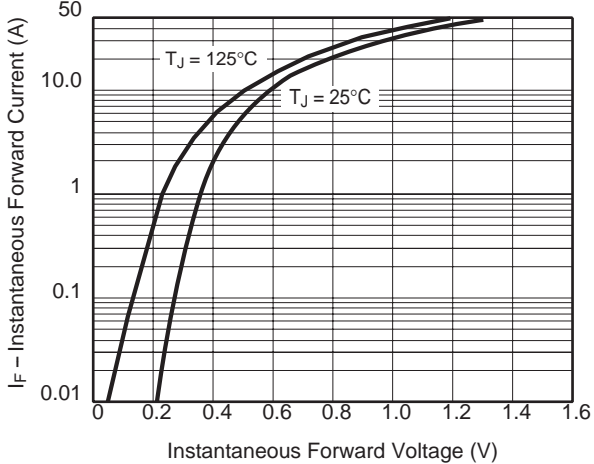


Fig. 4 — Typical Reverse Current Characteristics

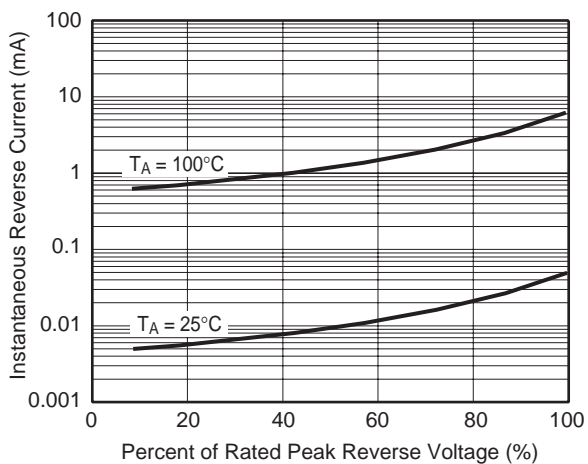


Fig. 5 — Typical Junction Capacitance

