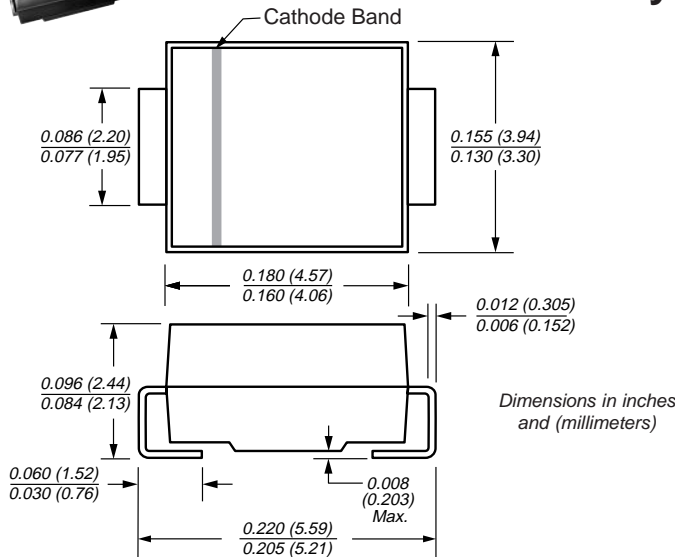




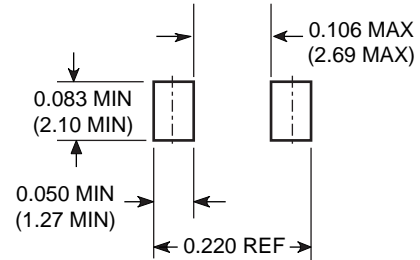
DO-214AA(SMB)

## Low $V_F$ Surface Mount Schottky Rectifier

Reverse Voltage 20 to 30V  
Forward Current 2.0A



### Mounting Pad Layout



### Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low profile surface mount package
- Built-in strain relief
- Low power loss, high efficiency
- 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 Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbols	SL22	SL23	Units
Device marking code		SL2	SL3	
Maximum repetitive 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
Maximum average forward rectified current at T <sub>L</sub> (SEE FIG.1)	I <sub>F(AV)</sub>	2.0		A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100		A
Maximum thermal resistance <sup>(2)</sup>	R <sub>θJA</sub> R <sub>θJL</sub>	75 17		°C/W
Operating junction temperature range	T <sub>J</sub>	-55 to +125		°C
Storage temperature range	T <sub>STG</sub>	-55 to +150		°C

### Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

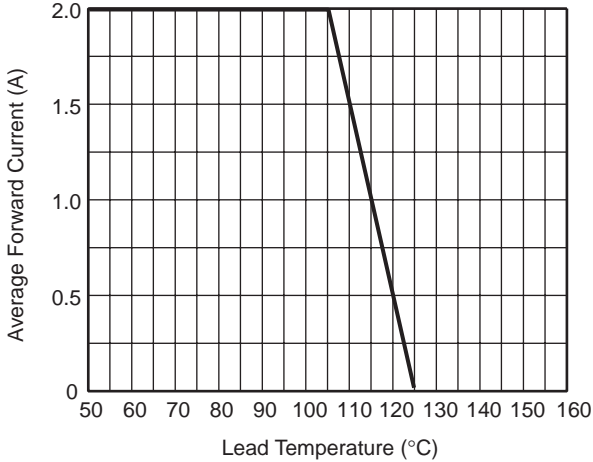
Parameter	Symbols	SL22	SL23	Units
Maximum instantaneous forward voltage at (NOTE 1)	I <sub>F</sub> =1.0A, T <sub>A</sub> =125°C I <sub>F</sub> =1.0A, T <sub>A</sub> =25°C I <sub>F</sub> =2.0A, T <sub>A</sub> =125°C I <sub>F</sub> =2.0A, T <sub>A</sub> =25°C	V <sub>F</sub>	0.280 0.395 0.320 0.440	V
Maximum DC reverse current <sup>(1)</sup> at rated DC blocking voltage	T <sub>A</sub> =25°C T <sub>A</sub> =100°C	I <sub>R</sub>	0.4 10	mA

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

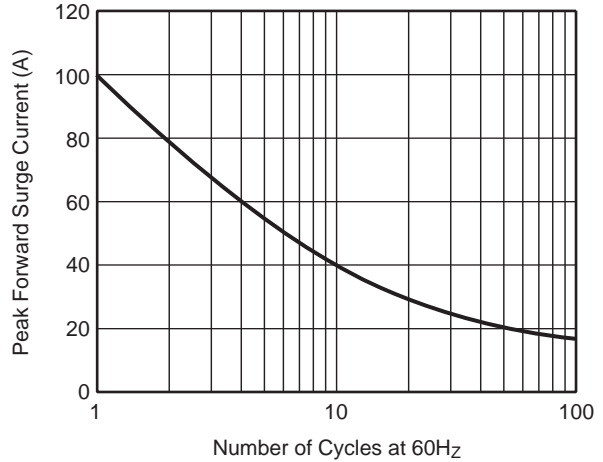
(2) P.C.B. mounted 0.55 x 0.55" (14 x 14mm) copper pad areas, T<sub>L</sub>=90°C

## Ratings and Characteristic Curves ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

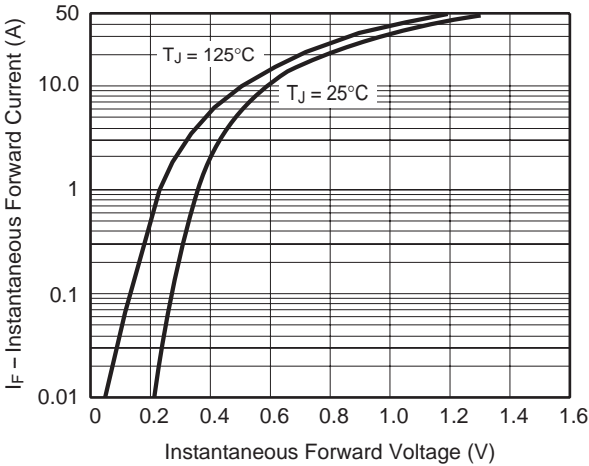
**Fig. 1 — Forward Derating Curve**



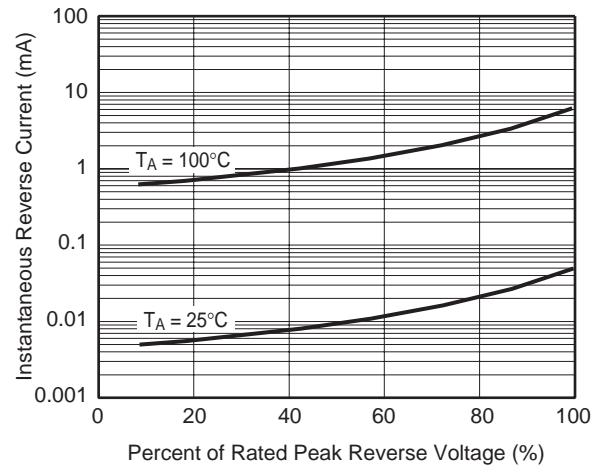
**Fig. 2 — Maximum Non-Repetitive Peak Forward Surge Current**



**Fig. 3 — Typical Instantaneous Forward Characteristics**



**Fig. 4 — Typical Reverse Current Characteristics**



**Fig. 5 — Typical Junction Capacitance**

