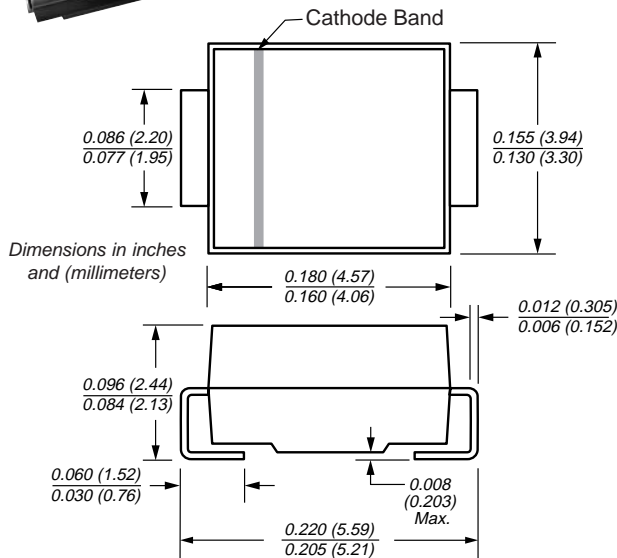




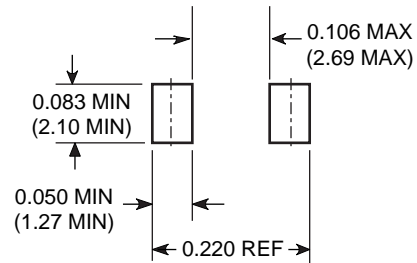
## Surface Mount Schottky Rectifiers

Reverse Voltage 20 to 60V  
Forward Current 2.0A

DO-214AA (SMB)



Mounting Pad Layout



### Mechanical Data

**Case:** JEDEC DO-214AA molded plastic body  
**Terminals:** Solder plated, solderable per MIL-STD750, Method 2026  
 High temperature soldering guaranteed:  
 250°C/10 seconds at terminals  
**Polarity:** Color band denotes cathode end  
**Weight:** 0.003 oz., 0.093 g

### 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

### Maximum Ratings and Thermal Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Parameter	Symbol	SS22	SS23	SS24	SS25	SS26	Unit	
Device marking code		S2	S3	S4	S5	S6		
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	V	
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	V	
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	V	
Max. 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>	75						A
Typical 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>	-65 to +125			-65 to +150			°C
Storage temperature range	T <sub>STG</sub>	-65 to +150						°C

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

Maximum instantaneous forward voltage at 2.0A <sup>(1)</sup>	V <sub>F</sub>	0.50		0.70			V
Maximum DC reverse current <sup>(1)</sup> at rated DC blocking voltage	I <sub>R</sub>	0.4		10			mA

**Notes:** (1) Pulse test: 300μs pulse width, 1% duty cycle  
 (2) Thermal resistance junction to lead P.C.B. mounted 0.375" (9.5mm) lead length

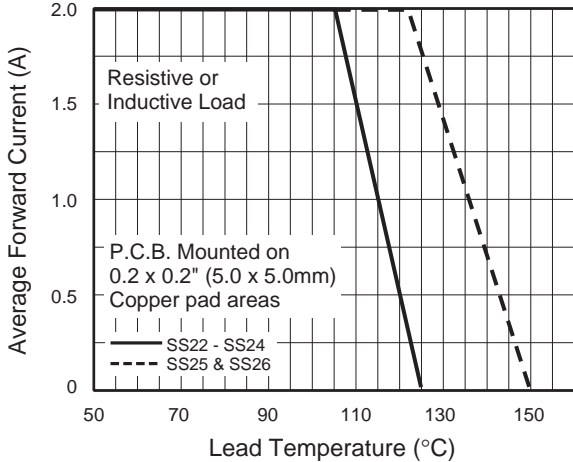
# SS22 thru SS26



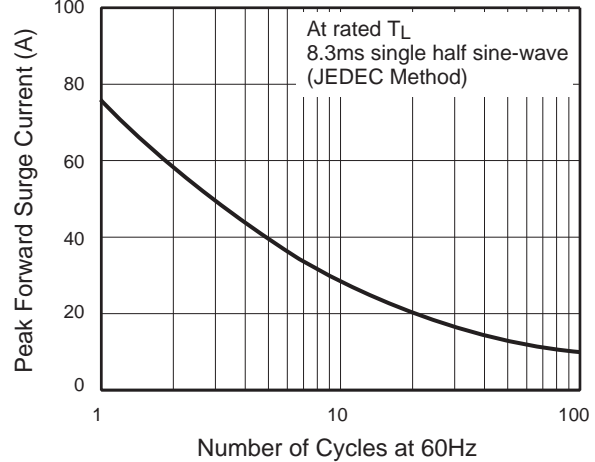
Vishay Semiconductors  
formerly General Semiconductor

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

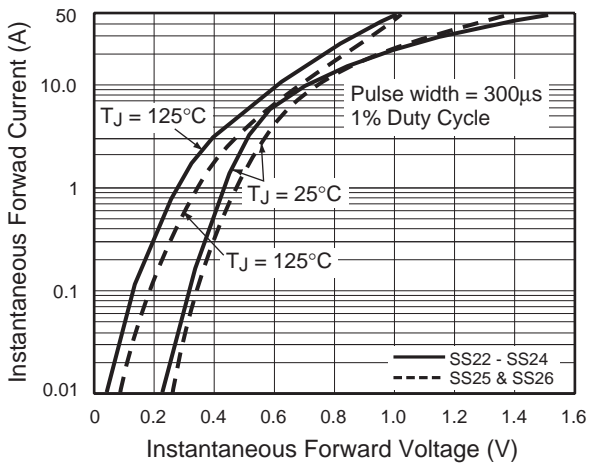
**Fig. 1 - Forward Current Derating Curve**



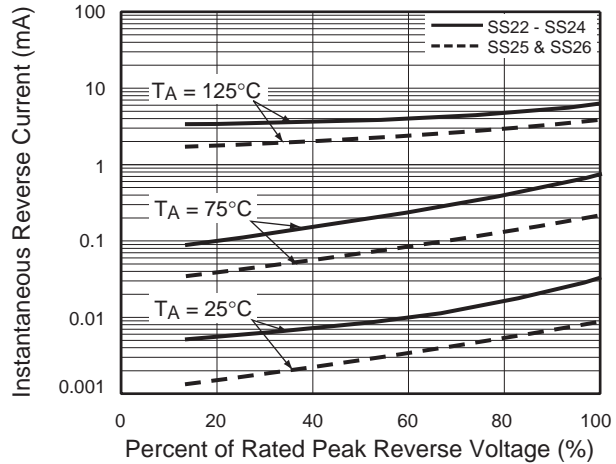
**Fig. 2 - Maximum Non-repetitive Surge Current**



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



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



**Fig. 5 - Typical Junction Capacitance**

