



## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

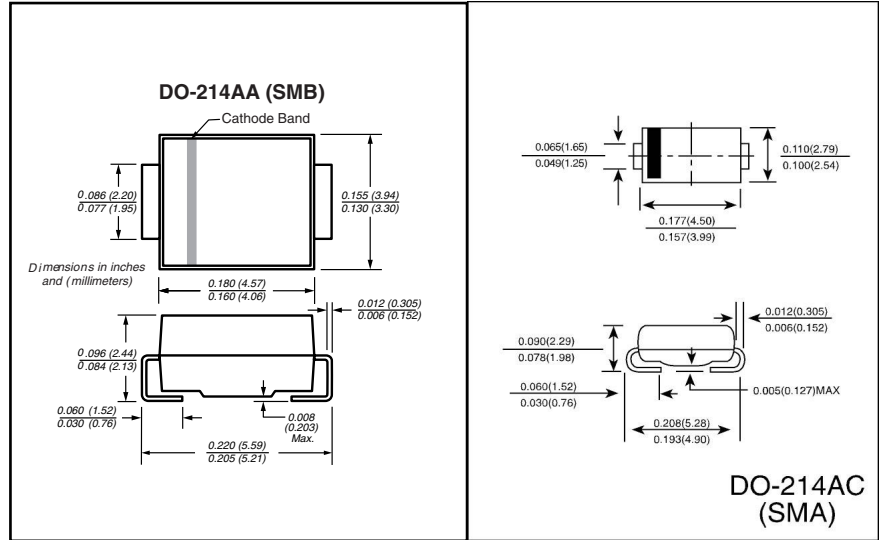
# SS22 THRU SS26

### 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

### MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic over JEDEC DO-214AC molded plastic over
- Terminals: Solder plated, solderable per MIL - STD - 750, Method 2026  
High temperature soldering guaranteed: 250°C/10 seconds at terminals
- Polarity: Color band denotes cathode end
- Weight: 0.002 ounce, 0.064 gram DO-214AC (SMA)  
0.003 ounce, 0.093 gram DO-214AA (SMB)



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Ratings at 25°C ambient temperature unless otherwise specified

### Maximum Ratings and Thermal Characteristics

Parameter	Symbol	SS22	SS23	SS24	SS25	SS26	Unit
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

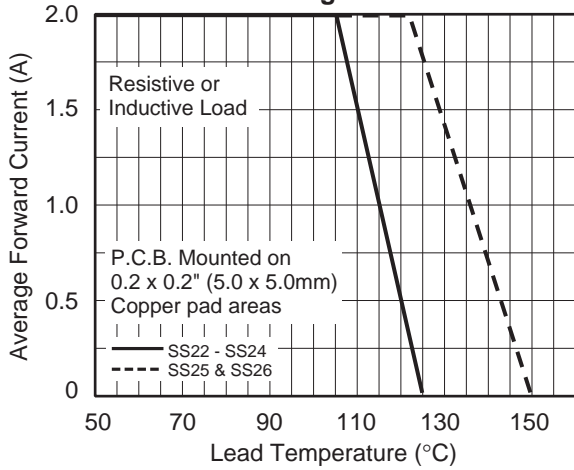
### Electrical Characteristics

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	T <sub>A</sub> = 25°C T <sub>A</sub> = 100°C	I <sub>R</sub>	0.4 10	mA

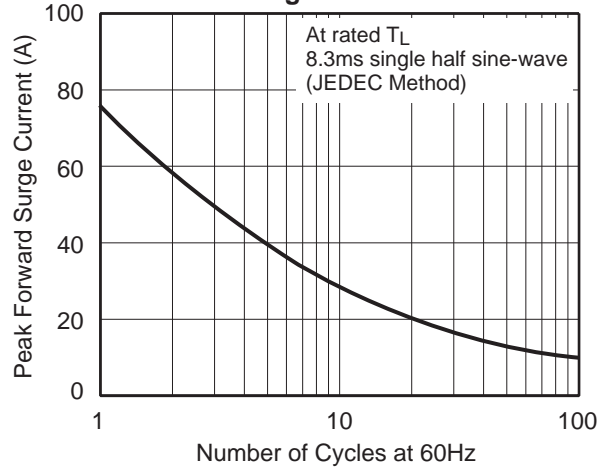
**Notes:** (1) Pulse test: 300 μs pulse width, 1% duty cycle  
(2) Thermal resistance junction to lead P.C.B. mounted 0.375" (9.5mm) lead length

# RATINGS AND CHARACTERISTIC CURVES SS22 THRU SS26

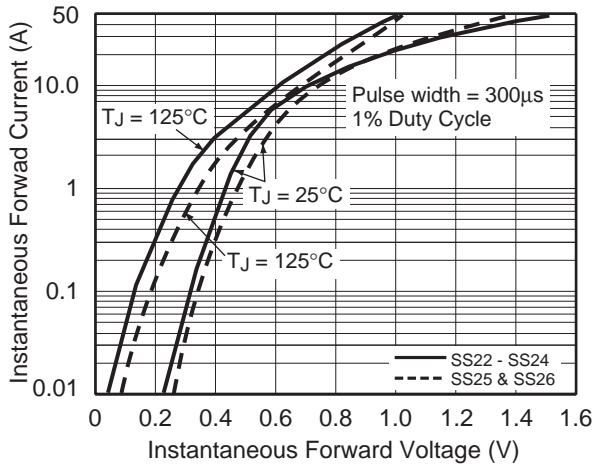
**Fig. 1 - Forward Current Derating Curve**



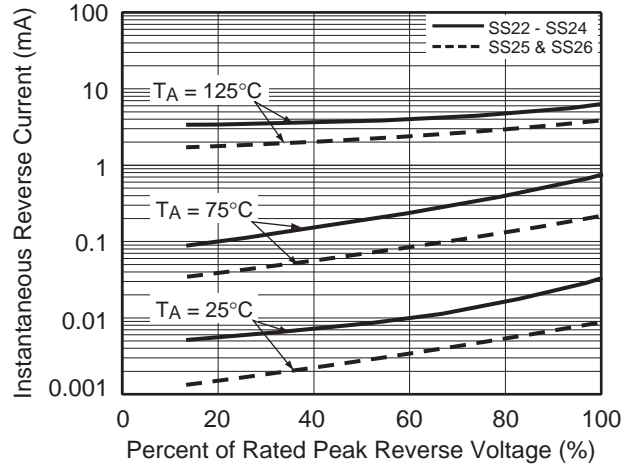
**Fig. 2 - Maximum Non-repetitive Surge Current**



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



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



**Fig. 5 - Typical Junction Capacitance**

