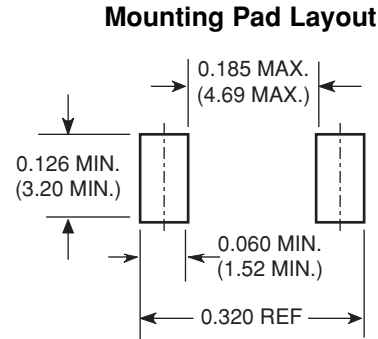
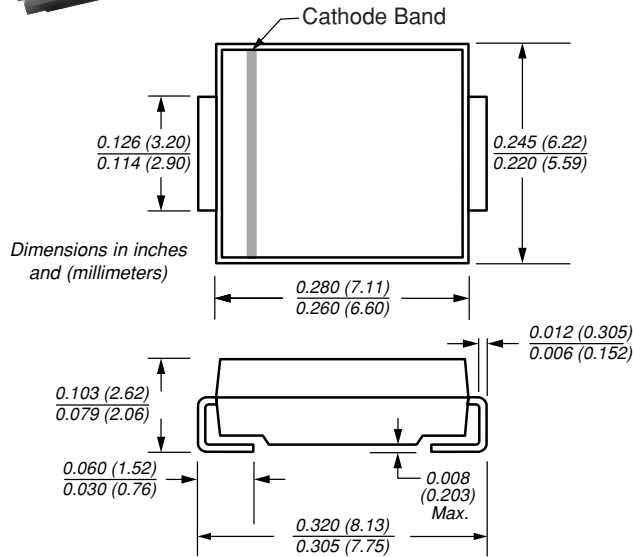




## Surface Mount Schottky Rectifier

DO-214AB (SMC)

Reverse Voltage 20 to 60V  
Forward Current 3.0A



### Mechanical Data

**Case:** JEDEC DO-214AB molded plastic body

**Terminals:** Solder plated, solderable per MIL-STD750, Method 2026

**Polarity:** Color band denotes cathode end

**Weight:** 0.007 oz., 0.25 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
- High temperature soldering guaranteed: 250°C/10 seconds at terminals

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

Parameter	Symbol	SS32	SS33	SS34	SS35	SS36	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
Maximum average forward rectified current at T <sub>L</sub> (See Fig. 1)	I <sub>F(AV)</sub>	3.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	100					A
Typical thermal resistance <sup>(2)</sup>	R <sub>θJA</sub> R <sub>θJL</sub>	55 17					°C/W
Voltage rate of change (rated V <sub>R</sub> )	dv/dt	10,000					V/μs
Operating junction temperature range	T <sub>J</sub>	-55 to +125			-55 to +150		°C
Storage temperature range	T <sub>STG</sub>	-55 to +150					°C

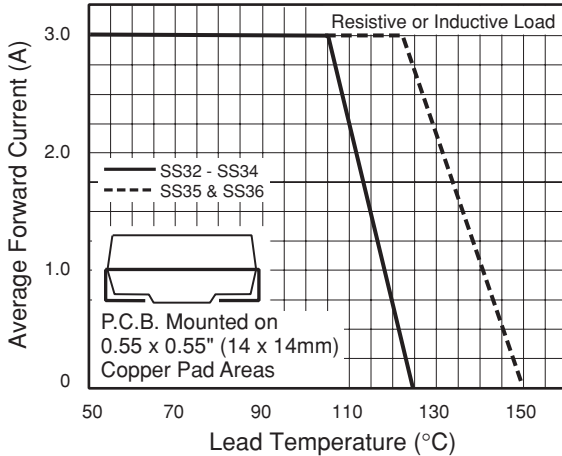
### Electrical Characteristics (T<sub>A</sub> = 25°C unless otherwise noted)

Maximum instantaneous forward voltage at 3.0A <sup>(1)</sup>	V <sub>F</sub>	0.50		0.75		V	
Maximum DC reverse current at rated DC blocking voltage <sup>(1)</sup>	I <sub>R</sub>	0.5					mA
		20		10			

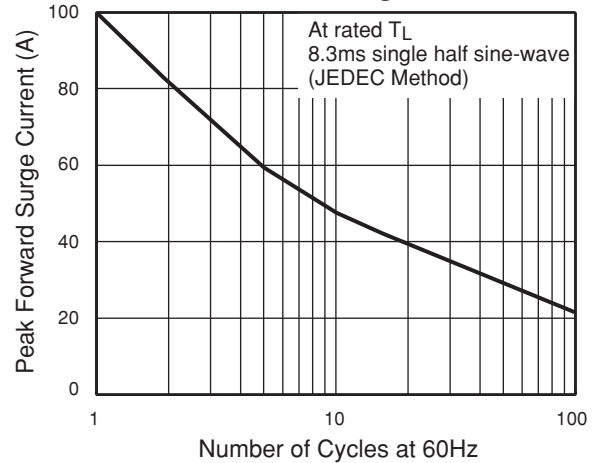
**Notes:** (1) Pulse test: 300μs pulse width, 1% duty cycle  
(2) P.C.B. mounted 0.55 x 0.55" (14 x 14mm) copper pad areas

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

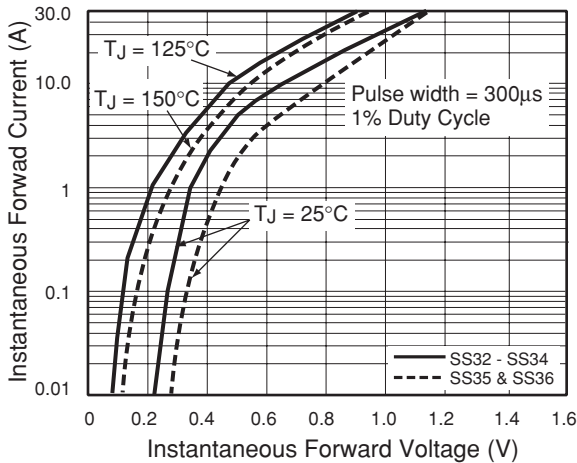
**Fig. 1 - Forward Current Derating Curve**



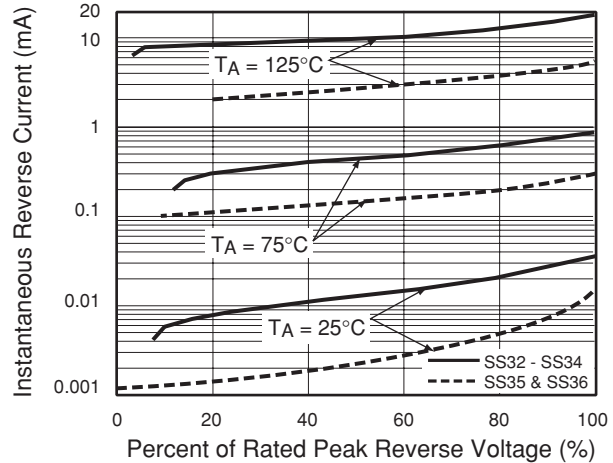
**Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current**



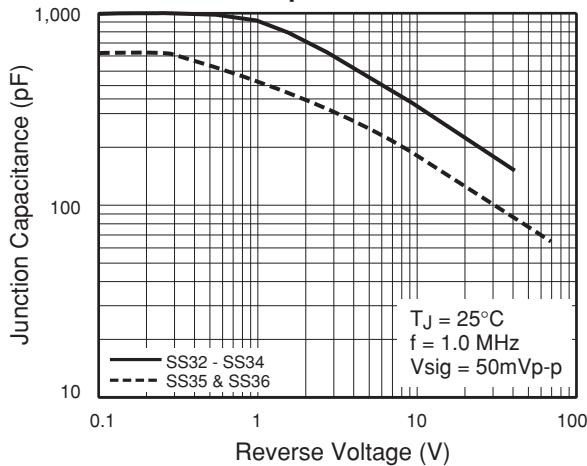
**Fig. 3 - Typical Instantaneous Forward Characteristics**



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



**Fig. 5 - Typical Junction Capacitance**



**Fig. 6 - Maximum Non-repetitive Peak Forward Surge Current**

