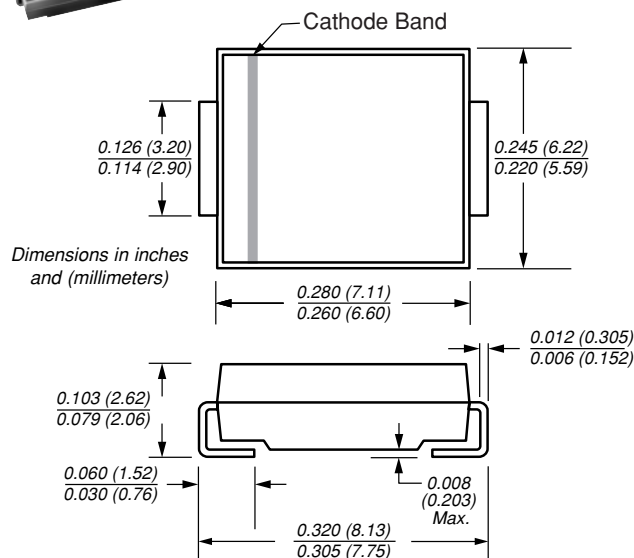
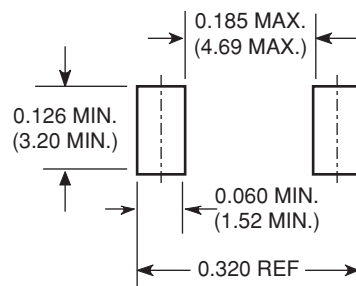


**Surface Mount Schottky Rectifier****DO-214AB (SMC)****Reverse Voltage** 20 to 60V
Forward Current 3.0A**Mounting Pad Layout****Features**

- 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-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**Maximum Ratings and Thermal Characteristics** ($T_A = 25^\circ\text{C}$ 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 _{RRM}	20	30	40	50	60	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	V
Maximum average forward rectified current at T _L (See Fig. 1)	I _{F(AV)}	3.0					A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	100					A
Typical thermal resistance ⁽²⁾	R _{θJA} R _{θJL}	55 17					°C/W
Voltage rate of change (rated V _R)	dv/dt	10,000					V/μs
Operating junction temperature range	T _J	−55 to +125			−55 to +150		°C
Storage temperature range	T _{STG}	−55 to +150					°C

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Maximum instantaneous forward voltage at 3.0A ⁽¹⁾	V _F	0.50	0.75	V
Maximum DC reverse current at rated DC blocking voltage ⁽¹⁾ T _A =25°C T _A =100°C	I _R	0.5		mA
		20	10	

Notes: (1) Pulse test: 300 μs 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

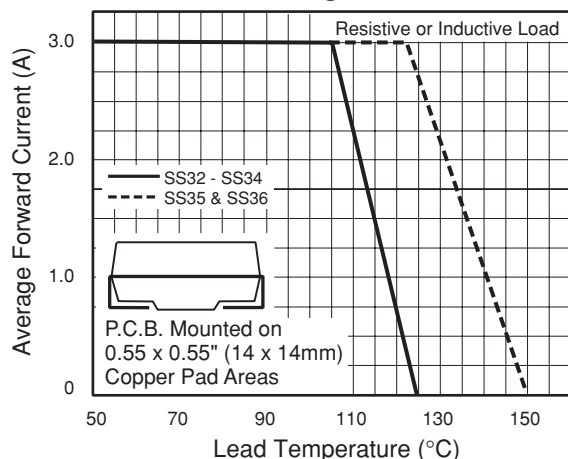


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

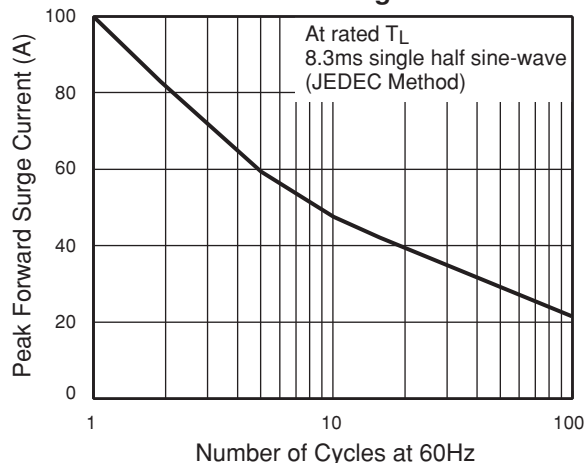


Fig. 3 - Typical Instantaneous Forward Characteristics

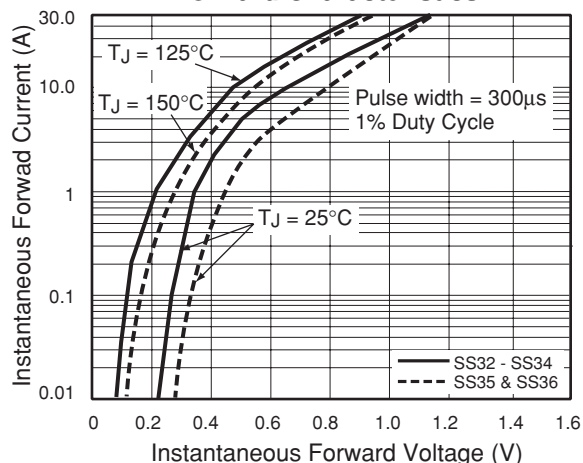


Fig. 4 - Typical Reverse Current Characteristics

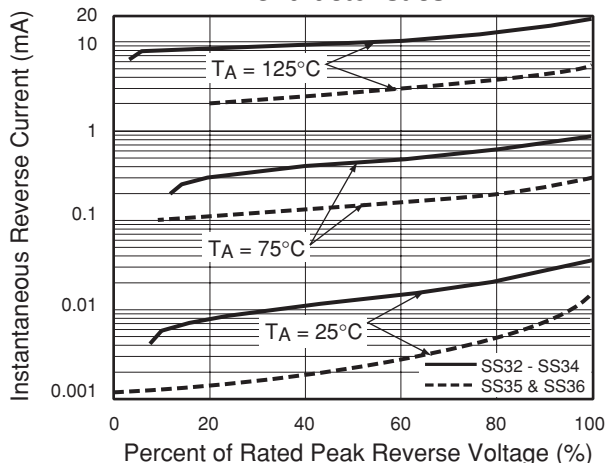


Fig. 5 - Typical Junction Capacitance

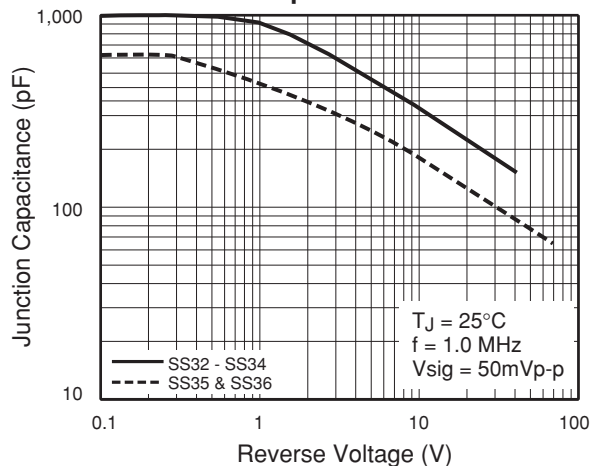


Fig. 6 - Maximum Non-repetitive Peak Forward Surge Current

