

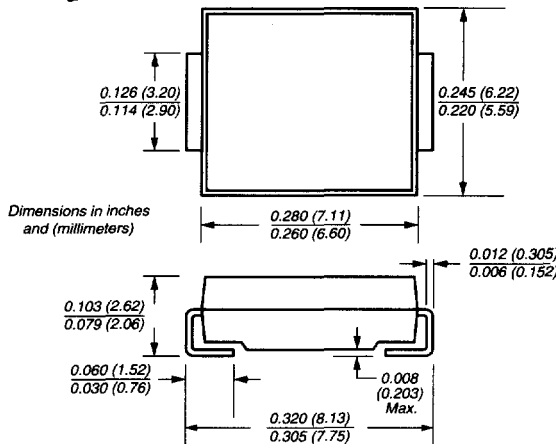
Surface Mount Schottky Rectifier

Reverse Voltage 20 to 60V

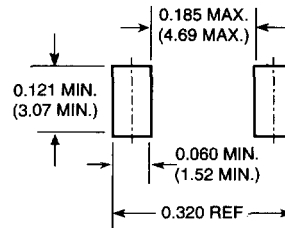
Forward Current 3.0A



DO-214AB (SMC)



Mounting Pad Layout DO-214AB



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 ounce, 0.25 gram

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_A = 25°C unless otherwise noted)

Parameter	Symbol	SS32	SS33	SS34	SS35	SS36	Unit
Device marking code		S2	S3	S4	S5	S6	V
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 (Note 2)	R _{θJA} R _{θJL}	55 17					°C/W
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°C unless otherwise noted)

Maximum instantaneous forward voltage at 3.0A (Note 1)	V _F	0.50	0.75	V
Maximum DC reverse current (Note 1) at rated DC blocking voltage	I _R	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

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

FIG. 1 - FORWARD CURRENT DERATING CURVE

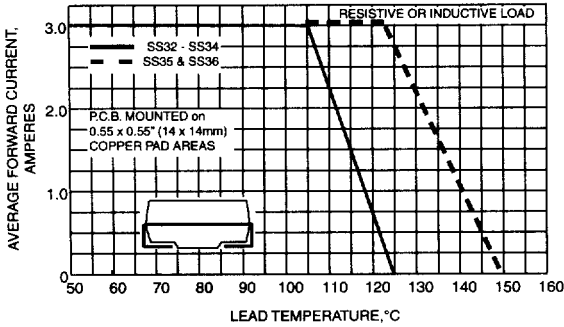


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

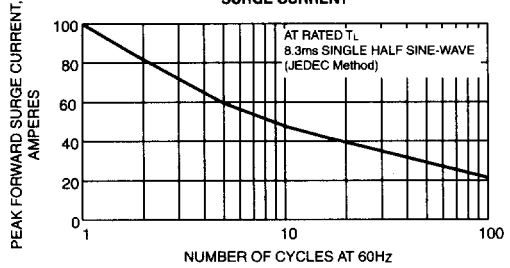


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

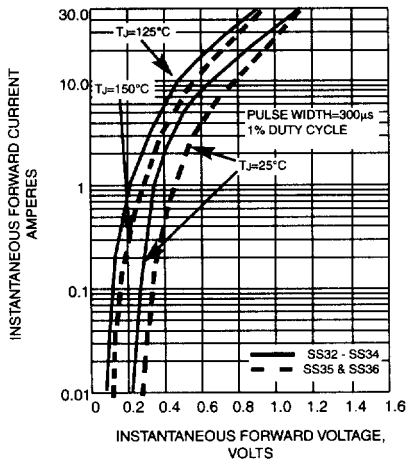


FIG. 4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

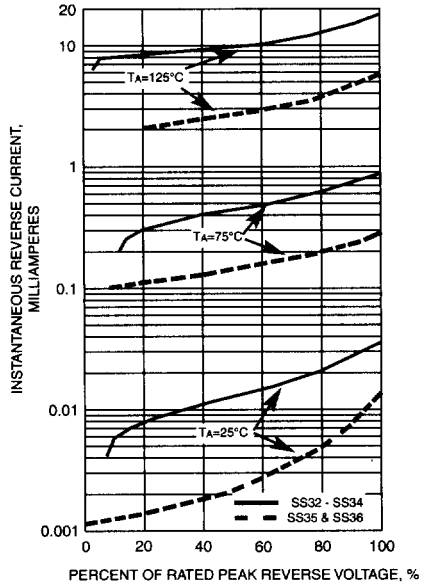


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

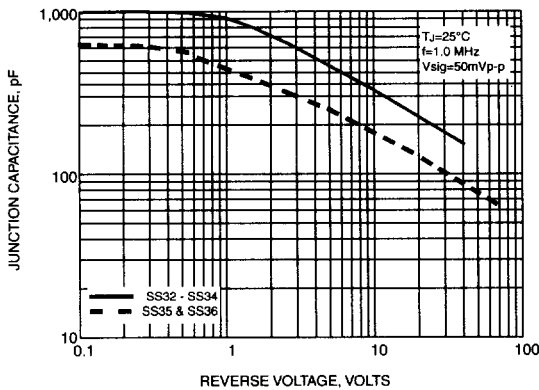


FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

