

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

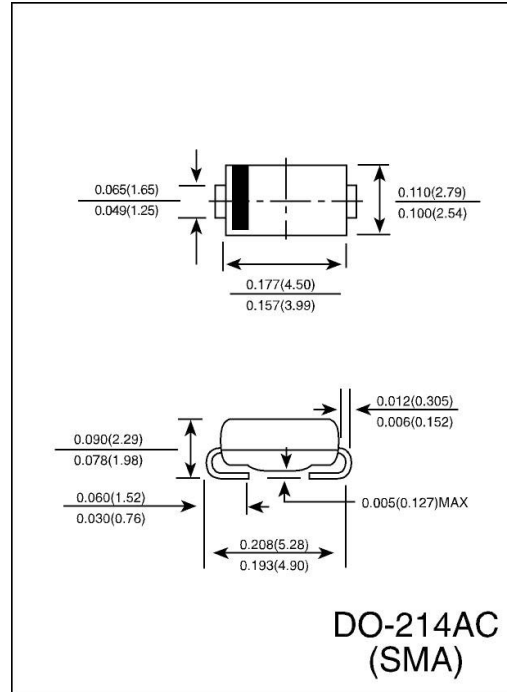
SS32A THRU SS36A

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mount applications
- Low profile package
- Built-in strain relief, ideal for automated placement
- Easy pick and place
- Metal silicon junction. major carrier conduction
- Low power loss, high efficiency
- High current capability, low forward voltage drop
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering: 250°C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic body
- Terminals: Solder plated, solderable per MIL - STD - 750, Method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007 ounce 0.25 gram.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOLS	SS32A	SS33A	SS34A	SS35A	SS36A	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	Volts
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	Volts
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	Volts
Maximum average forward rectified current at T _L (SEE FIG. 1) (NOTE 2)	$I_{(AV)}$	3.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	70.0					Amps
Maximum instantaneous forward voltage at 3.0A (NOTE 1)	V_F	0.50			0.75		Volts
Maximum DC reverse current (NOTE 1) T _A =25°C at rated DC blocking voltage T _A =100°C	I_R	0.5					mA
		20.0			10.0		
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JL}$	55.0 17.0					°C/W
Operating junction temperature range	T _J	-55 to +125			-55 to +150		°C
Storage temperature range	T _{STG}	-55 to +150					°C

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 SS32A THRU SS36A

FIG. 1 - FORWARD CURRENT DERATING CURVE

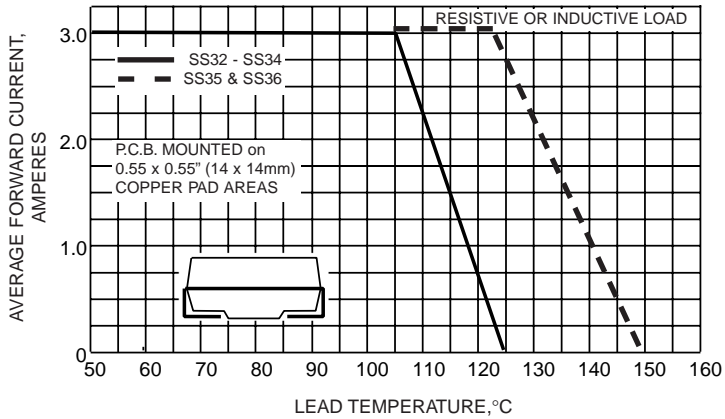


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

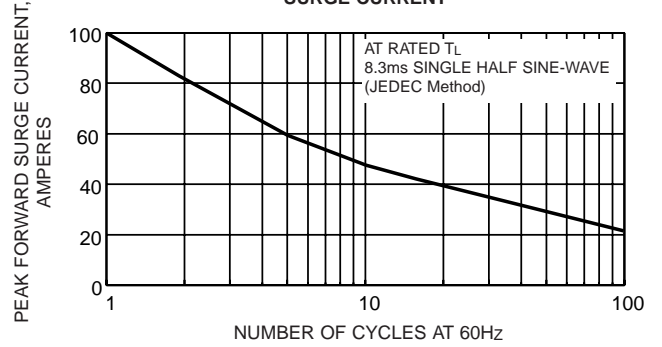


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

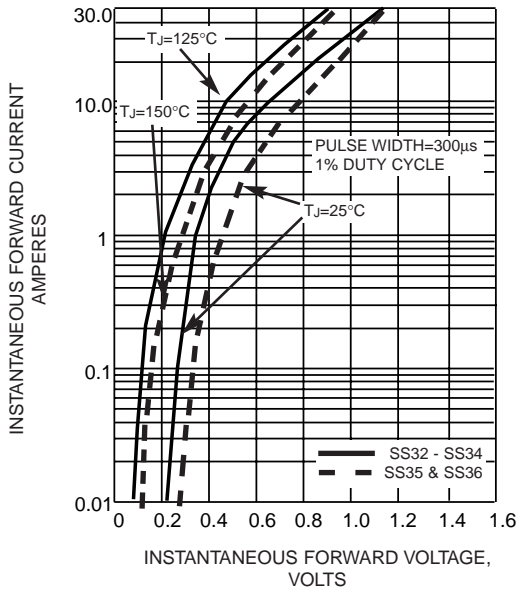


FIG. 4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

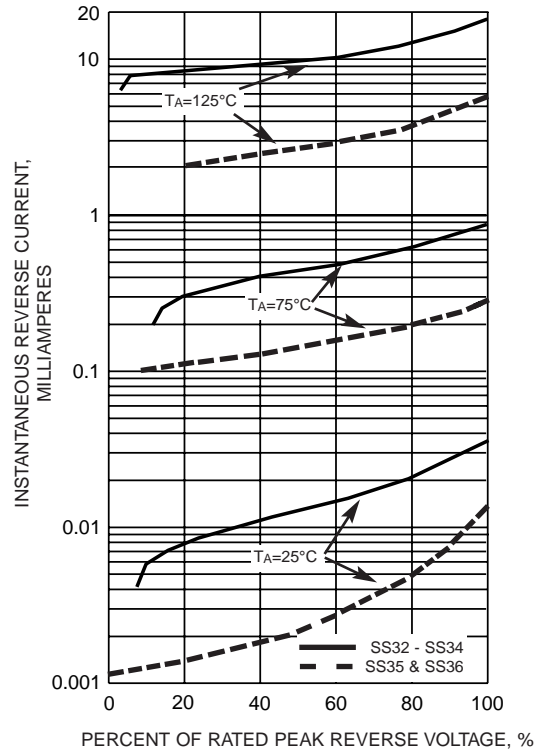


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

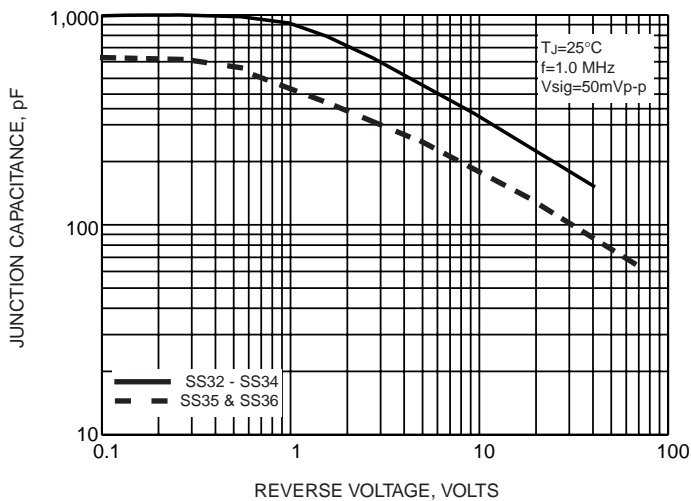


FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

