



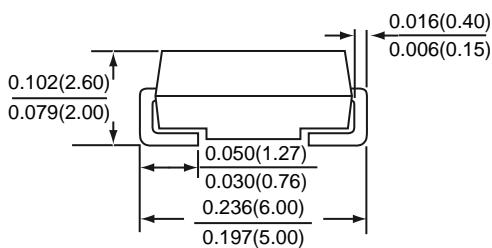
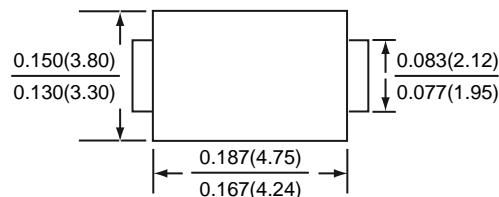
SS32 THRU SS36

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 60 Volts

Forward Current - 3.0 Amperes

SMB / DO-214AA



*Dimensions in inches and (millimeters)



FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * For surface mount applications
- * Low profile package
- * Built-in strain relief
- * Metal silicon junction, majority carrier conduction
- * Low power loss, high efficiency
- * High current capability, low forward voltage drop
- * High surge capability
- * For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- * Guardring for overvoltage protection
- * High temperature soldering guaranteed : 260°C/10 seconds, at terminals

MECHANICAL DATA

Case : JEDEC DO-214AA molded plastic body
Terminals : Solder plated, solderable per MIL-STD-750D Method 2026
Polarity : Color band denotes cathode end
Weight : 0.003 ounces , 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.		SYMBOLS	SS32	SS33	SS34	SS35	SS36	UNITS
Maximum repetitive peak reverse voltage	VR _{RM}		20	30	40	50	60	Volts
Maximum RMS voltage	VR _{RMS}		14	21	28	35	42	Volts
Maximum DC blocking voltage	V _{DC}		20	30	40	50	60	Volts
Maximum average forward rectified current (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}				100			Amps
Maximum instantaneous forward voltage at 3.0 A (NOTE 1)	V _F			0.50		0.75		Volts
Maximum DC reverse current at rated DC blocking voltage (NOTE 1)	TA=25°C	IR			0.5			mA
	TA=100°C				20		10	
Typical thermal resistance (NOTE 2)		R _{θ JA} R _{θ JL}			55			°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 : 300us pulse width, 1% duty cycle

(2) P.C.B. mounted with 0.55 x 0.55" (14 x 14mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS36

FIG.1 - FORWARD CURRENT DERATING CURVE

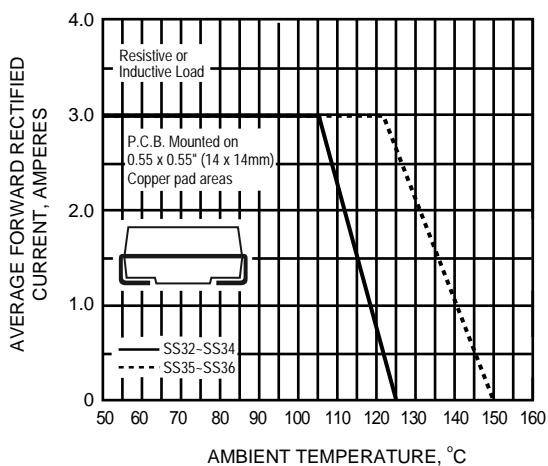


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

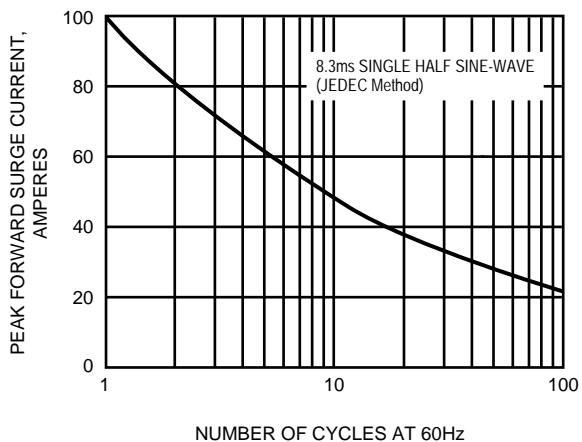


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

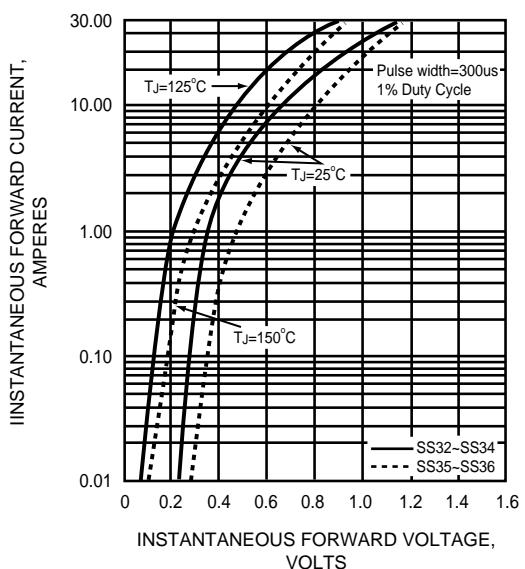


FIG.4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

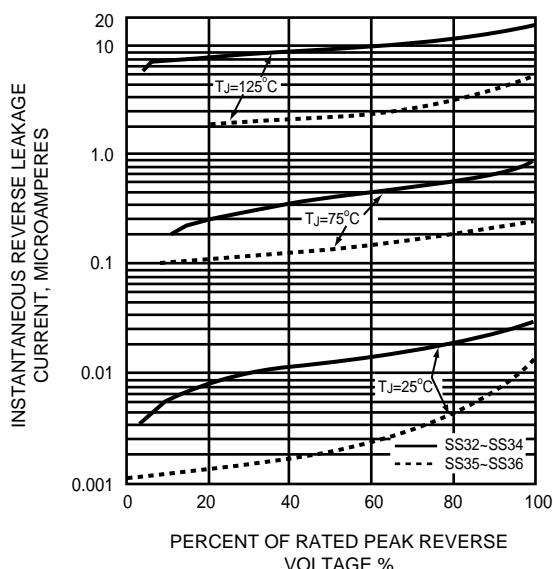


FIG.5 - TYPICAL JUNCTION CAPACITANCE

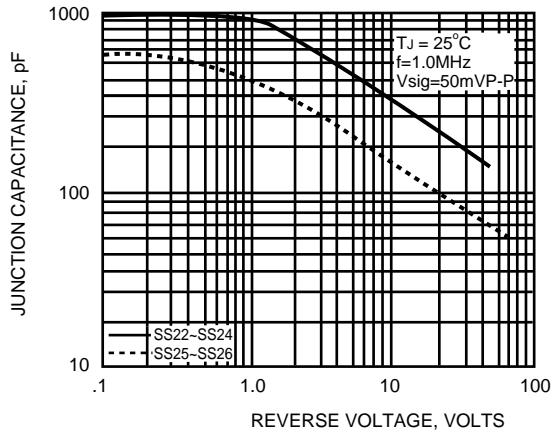


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

