



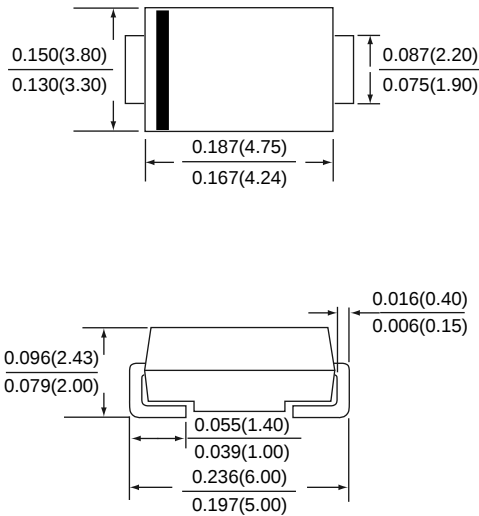
SS32 THRU SS310

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 100 Volts

Forward Current - 3.0 Amperes

SMB / DO-214AA



*Dimensions in inches and (millimeters)



Lead free product

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Compliance to RoHS product
- * 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 : Tin 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	SS34	SS36	SS310	UNITS
Maximum repetitive peak reverse voltage		VRRM	20	40	60	100	Volts
Maximum RMS voltage		VRMS	14	28	42	70	Volts
Maximum DC blocking voltage		VDC	20	40	60	100	Volts
Maximum average forward rectified current (SEE FIG.1)		I(AV)	3.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	80				Amps
Maximum instantaneous forward voltage at 3.0 A (NOTE 1)		VF	0.50		0.70	0.85	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 θJA R θJL	55 17				°C / W
Operating junction temperature range		TJ	-55 to +125		-55 to +150		°C
Storage temperature range		TSTG	-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 SS310

FIG.1 - FORWARD CURRENT DERATING CURVE

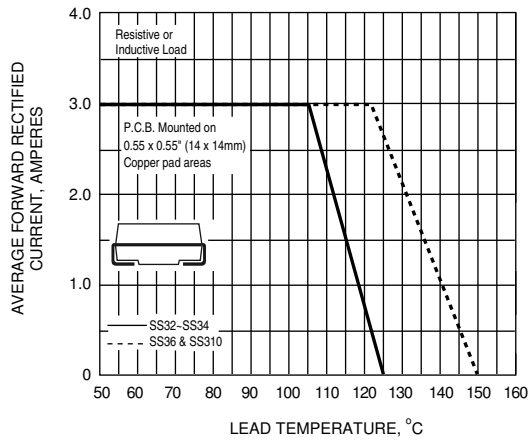


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

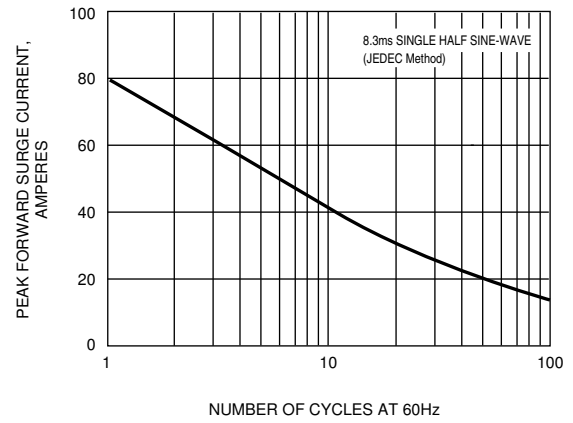


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

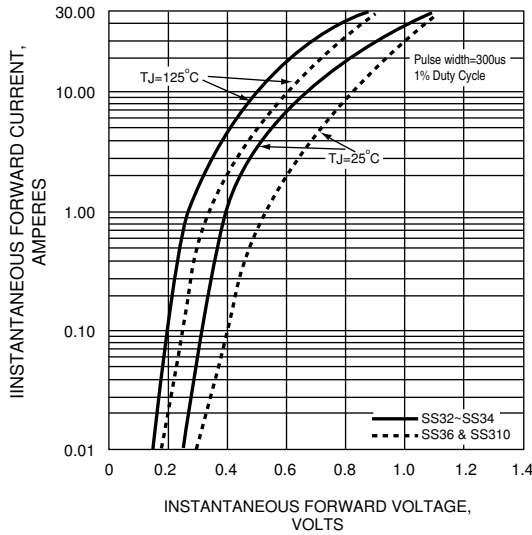


FIG.4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

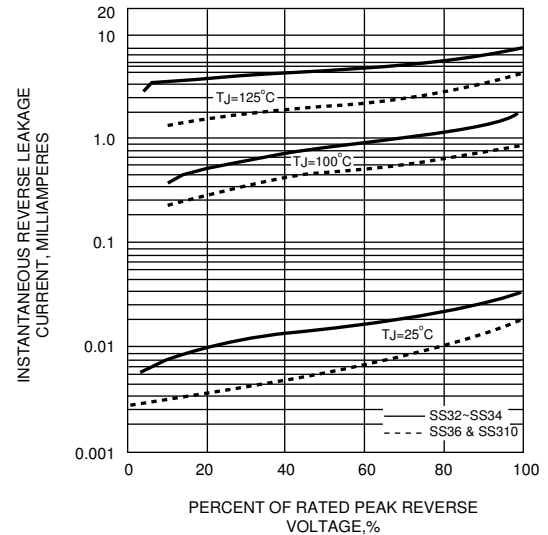


FIG.5 - TYPICAL JUNCTION CAPACITANCE

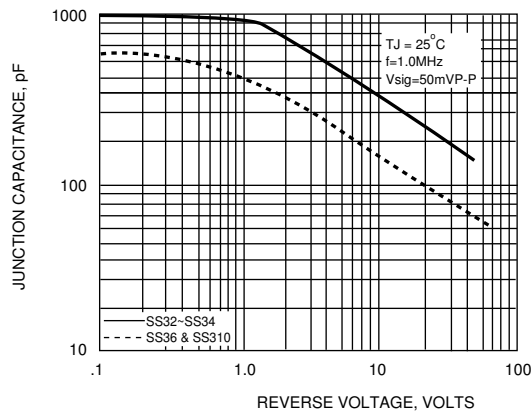


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

