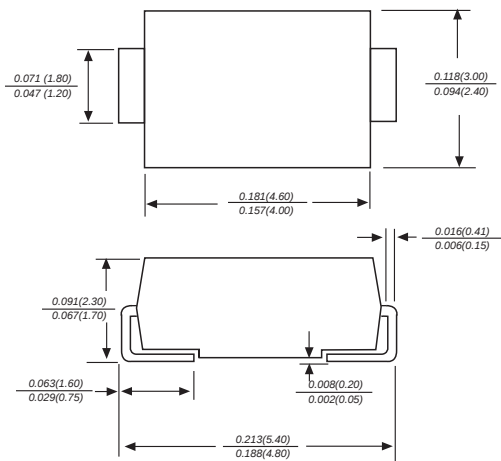


**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIER**

Reverse Voltage - 20 to 100 Volts
Forward Current -3.0 Amperes

DO-214AC/SMA



Dimensions in inches and (millimeters)

Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 260°C/10 seconds at terminals

Mechanical Data

Case: JEDEC DO-214AC molded plastic body
Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.002 ounce, 0.07 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	SS32	SS33	SS34	SS35	SS36	SS38	SS310	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	v
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	v
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)	3.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	70.0							A
Maximum instantaneous forward voltage at 3.0A	V _F	0.55			0.70		0.85		V
Maximum DC reverse current T _A =25℃ at rated DC blocking voltage T _A =100℃	I _R	0.5					0.1		mA
		20					10		
Typical junction capacitance (NOTE 1)	C _J	500			300				pF
Typical thermal resistance (NOTE 2)	R _{θJA}	75.0							℃/W
Operating junction temperature range	T _J	-55 to +125			-55 to +150				℃
Storage temperature range	T _{STG}	-55 to +150							℃

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS310

FIG. 1- FORWARD CURRENT DERATING CURVE

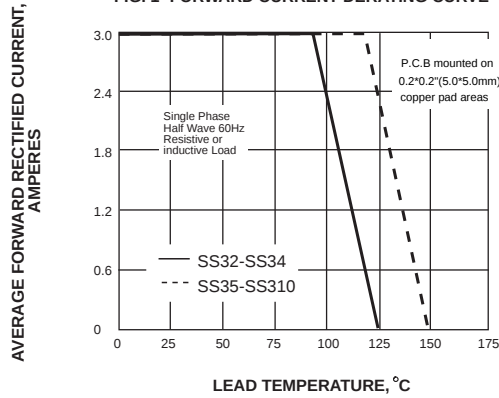


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

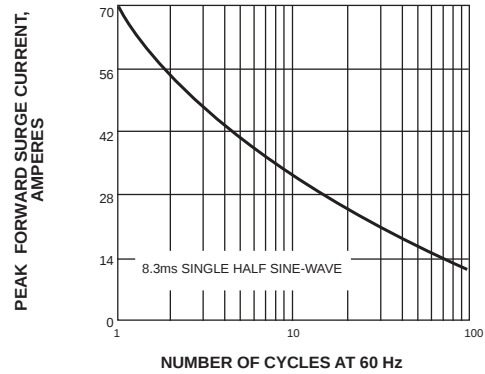


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

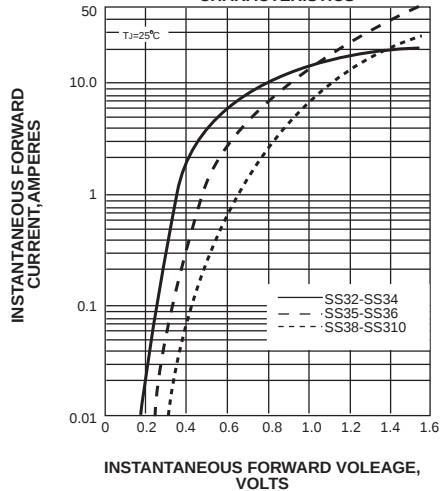


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

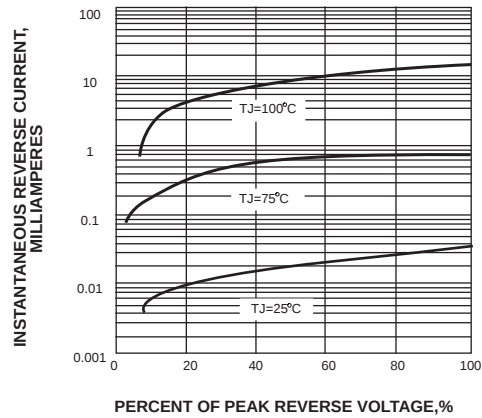


FIG. 5-TYPICAL JUNCTION CAPACITANCE

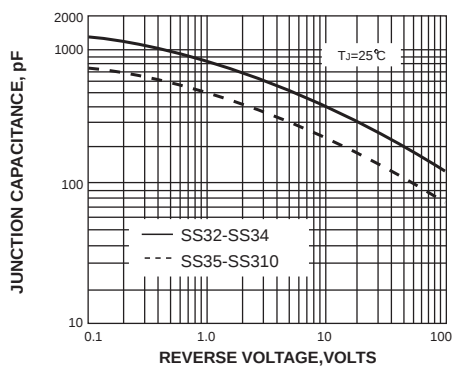


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

