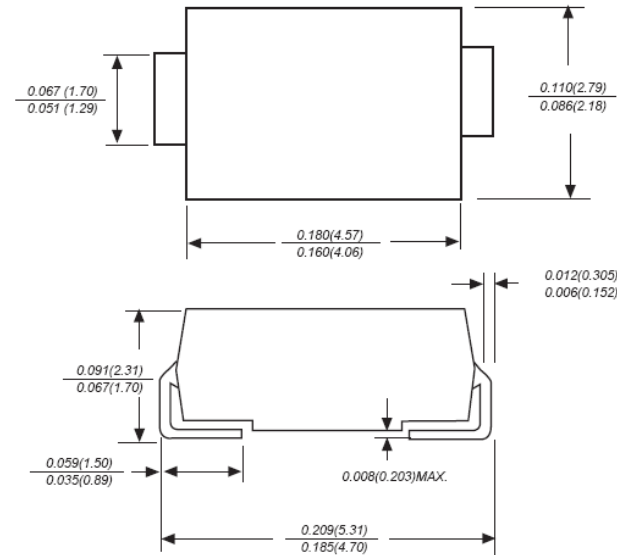


SS32 THRU SS320**SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER****Reverse Voltage - 20 to 200 Volts Forward Current - 3.0 Amperes****FEATURES**

- ◆ 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:
250°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:** 0.058 grams**DO-214AC****Dimensions in inches and (millimeters)****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%.

	<i>SYMBOLS</i>	SS32	SS33	SS34	SS35	SS36	SS38	SS310	SS315	SS320	UNITS	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	VOLTS	
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	150	200	VOLTS	
Maximum average forward rectified current at T _L (see fig.1)	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	V _F	0.55				0.70		0.85		0.95		Volts
Maximum DC reverse current T _A =25℃ at rated DC blocking voltage T _A =100℃	I _R	0.5							1.0		mA	
		20				10						
Typical junction capacitance (NOTE 1)	C _J	500				300					pF	
Typical thermal resistance (NOTE 2)	R _{QJA}	55.0							62.0		℃/W	
Operating junction temperature range	T _J	-65 to +125				-65 to +150					℃	
Storage temperature range	T _{STG}	-65 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

SS32 THRU SS320

RATINGS AND CHARACTERISTIC CURVES SS32 THRU SS320

FIG. 1- FORWARD CURRENT DERATING CURVE

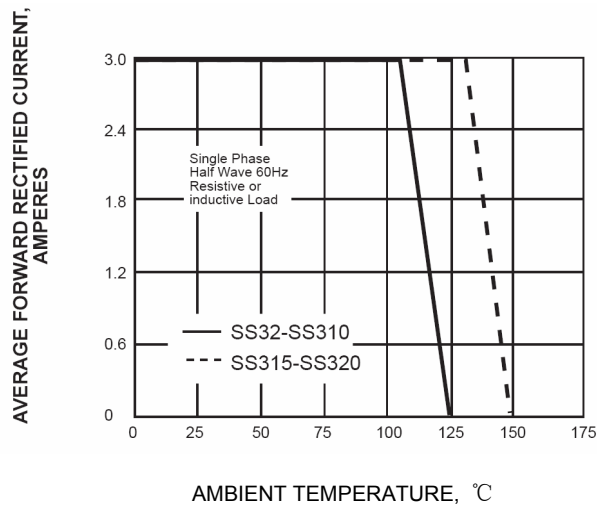


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

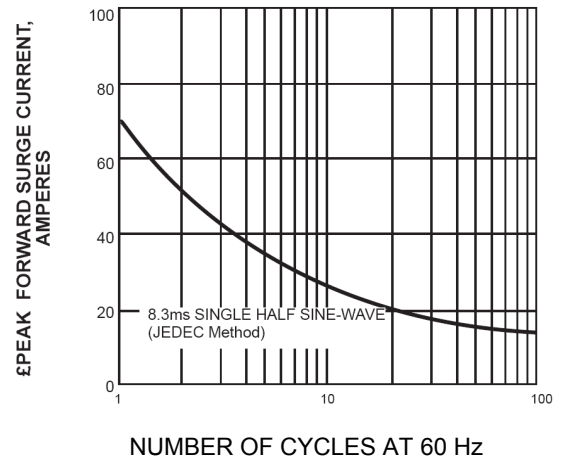


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

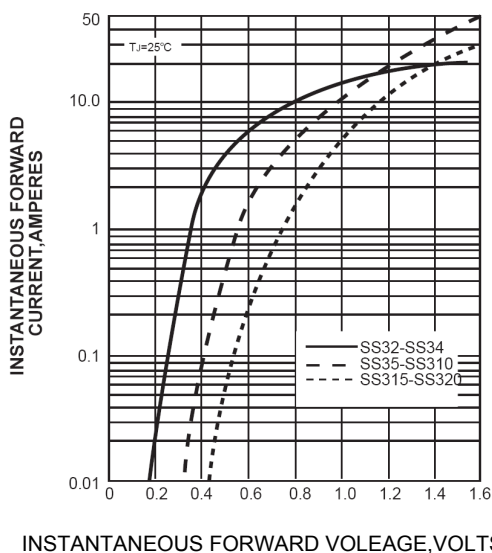


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

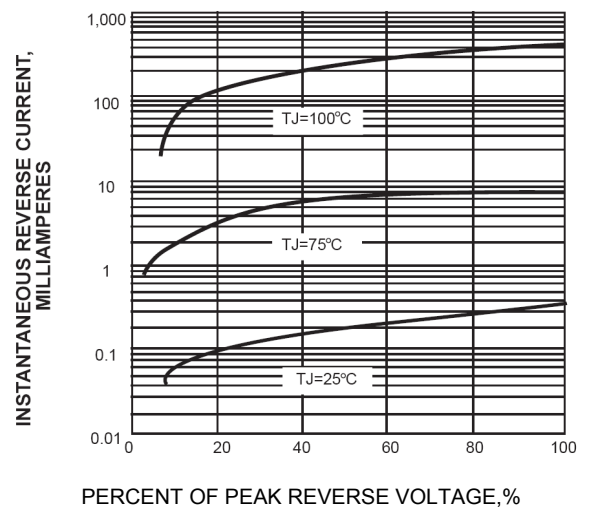


FIG. 5-TYPICAL JUNCTION CAPACITANCE

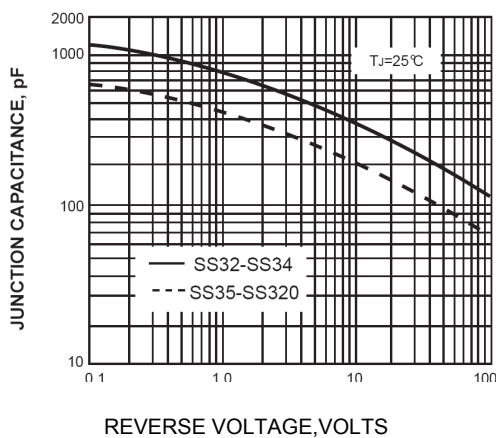
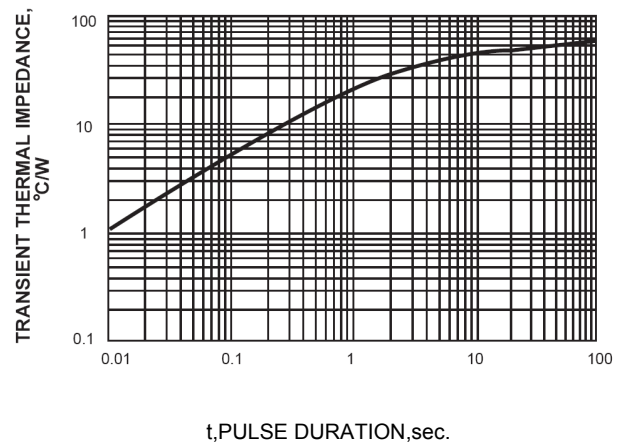


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Note: Specifications are subject to change without notice.