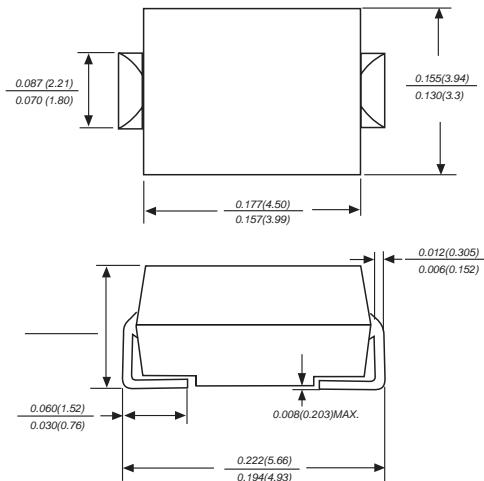


SS22 THRU SS220

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 20 to 200 Volts Forward Current - 2.0 Amperes

DO-214AA 'GA 6



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: 250°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic body

Terminals: leads solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 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	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS215	SS220	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	100	VOLTS
Maximum average forward rectified current at T _L (see fig.1)	I _(AV)										Amp
Peak forward surge current											
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}										Amps
Maximum instantaneous forward voltage at 2.0A	V _F	0.45	0.55	0.70	0.85						Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R			0.5							mA
		20		10							
Typical junction capacitance (NOTE 1)	C _J	220		180							pF
Typical thermal resistance (NOTE 2)	R _{qJA}		88.0								°C/W
Operating junction temperature range	T _J	-65 to +125		-65 to +150							°C
Storage temperature range	T _{STG}		-65 to +150								°C

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. P.C.B. mounted with 0.4x0.4" (10x10mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES SS22 THRU SS220

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

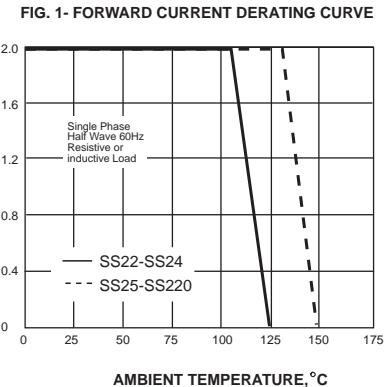
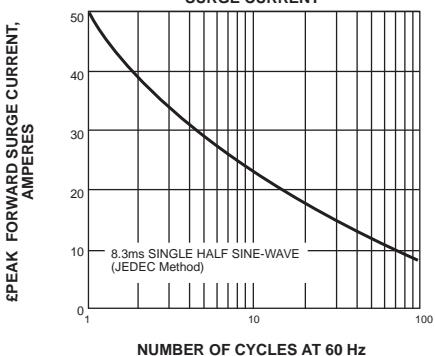


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



INSTANTANEOUS FORWARD
CURRENT, AMPERES

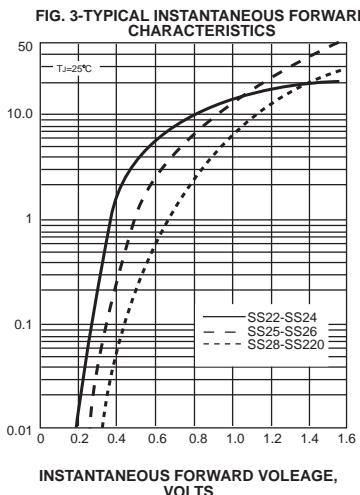
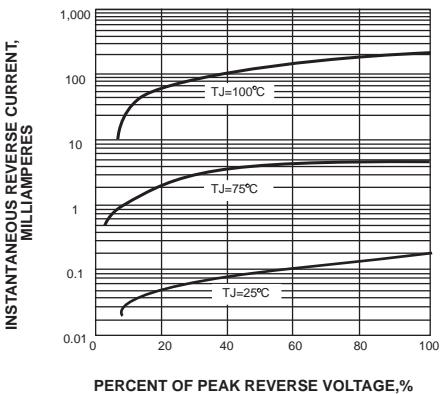


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

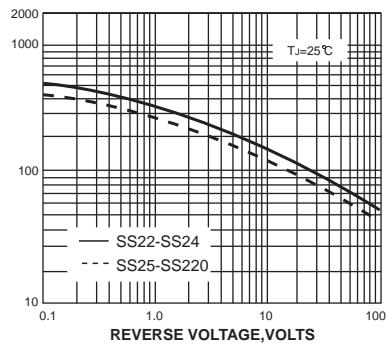


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

