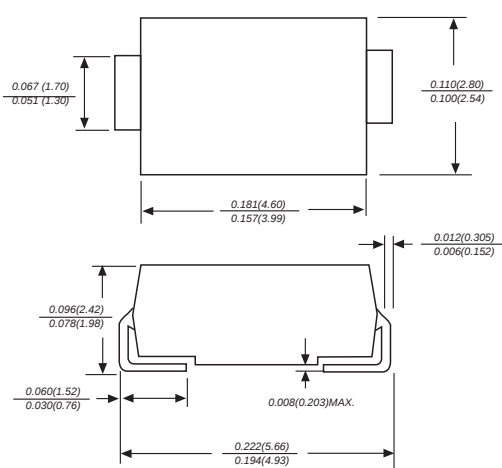


SMA



0.067 (1.70)
0.051 (1.30)

0.110 (2.80)
0.100 (2.54)

0.181 (4.60)
0.157 (3.99)

0.012 (0.305)
0.006 (0.152)

0.096 (2.42)
0.078 (1.98)

0.060 (1.52)
0.030 (0.76)

0.008 (0.203) MAX.

0.222 (5.66)
0.194 (4.93)

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 SMA molded plastic body

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

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.070 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

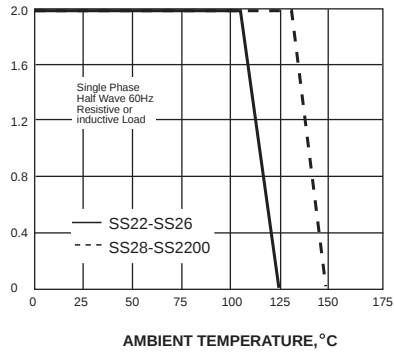
Ratings at 25°C ambient temperature unless otherwise specified.
Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Catalog	Number	SYMBOLS	SS22	SS23	SS24	SS25	SS26	SS28	SS210	SS2150	SS2200	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}	2.0									Amps
	Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	50.0									Amps
	Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70		0.85		0.95		Volts	
	Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	0.5						0.2		mA	
			10.0				5.0		2.0			
	Typical junction capacitance (NOTE 1)	C _J	220		180						pF	
	Typical thermal resistance (NOTE 2)	R _{θJA}	75.0									°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 0.2x0.2" (5.0x5.0mm) copper pad areas

AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



PEAK FORWARD SURGE CURRENT,
AMPERES

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

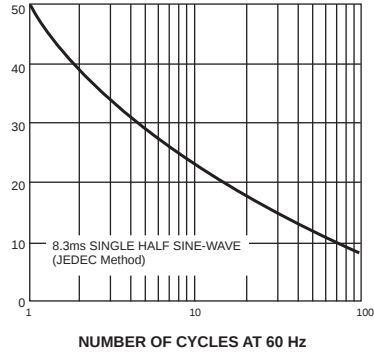
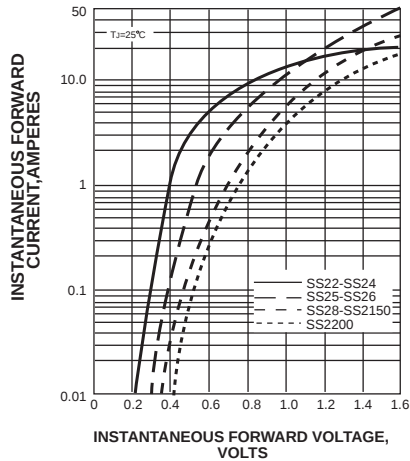


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



INSTANTANEOUS REVERSE CURRENT,
MILLIAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS

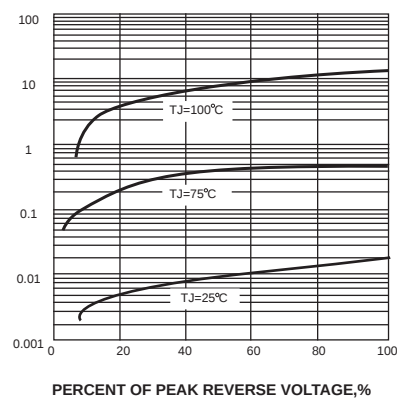
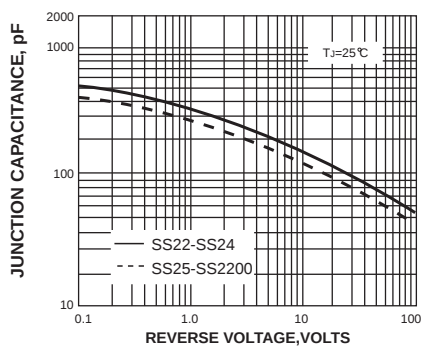


FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

