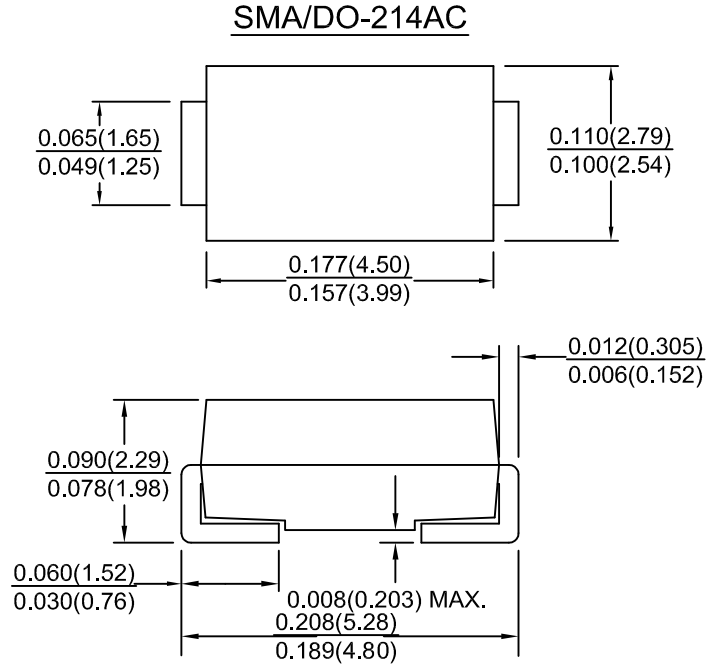


FEATURES:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted 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
- Guard ring for overvoltage protection
- High temperature soldering guaranteed: 250°C /10 seconds at terminals

MECHANICAL DATA

Case : JEDEC DO-214AC molded plastic body
 Terminals : Solder plated, solderable per MIL-STD-750 Method 2026
 Polarity : Color band on body denotes cathode end
 Weight : 0.002 ounce, 0.064 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	S22	S23	S24	S25	S26	S28	S29	S2A0	Units
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	64	70	Volts
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	90	100	Volts
Maximum average forward rectified current at TL(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 2.0 A(NOTE 1)	V _F	0.50	0.55	0.70			0.85		Volts	
Maximum instantaneous reverse current at rated DC blocking voltage (NOTE 1)	I _R	0.5								mA
		20.0								
Maximum thermal resistance(NOTE 2)	R _{th-JA} R _{th-JL}	55.0								°C/W
		17.0								
Operating junction temperature range	T _J	-65 to +150								°C
Storage temperature range	T _{stg}	-65 to +150								°C

NOTES:
 (1) Pulse test: 300 μs pulse width, 1% duty cycle
 (2) P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

RATINGS AND CHARACTERISTIC CURVES S22 THRU S2A0

FIG.1 - FORWARD CURRENT DERATING CURVE

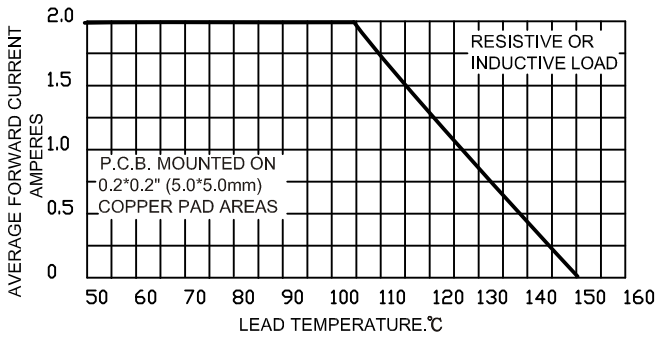


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

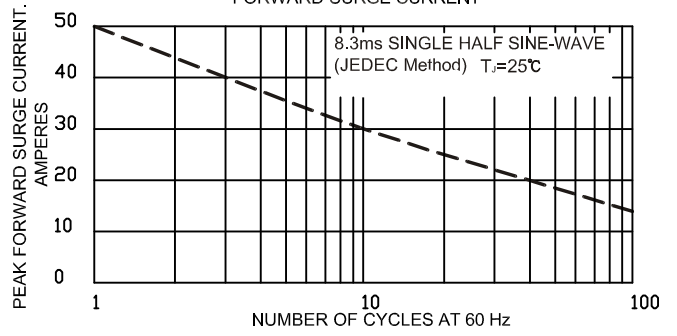


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

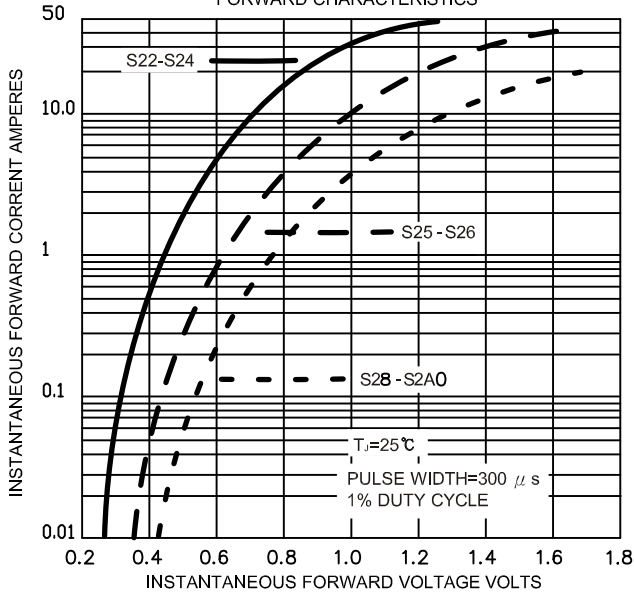


FIG.4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

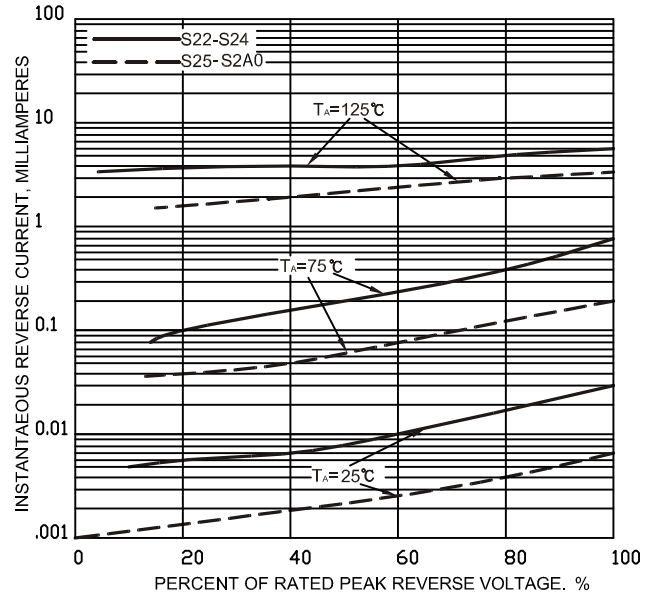


FIG.5 - TYPICAL JUNCTION CAPACITANCE

