

S22 THRU S2A0

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

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

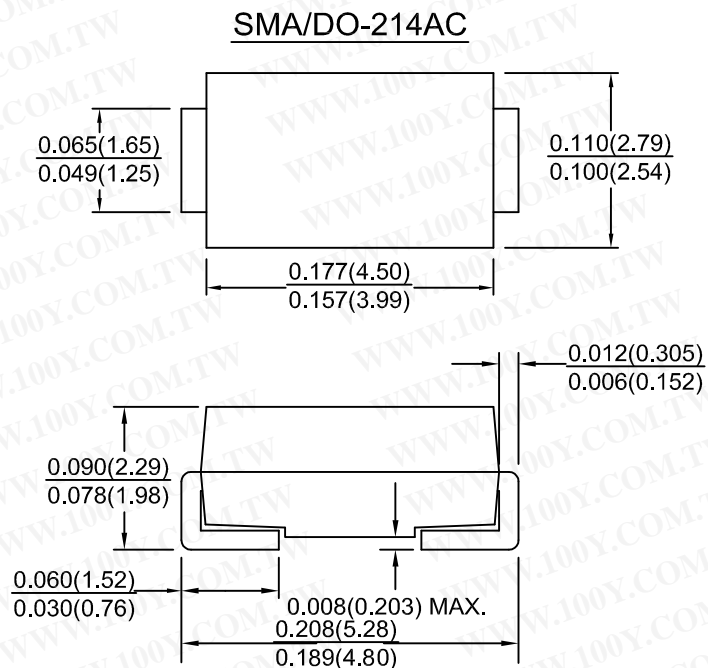
MECHANICAL DATA

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 %.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
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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

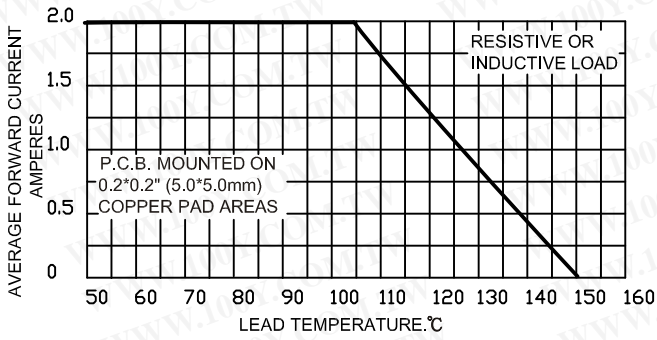


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

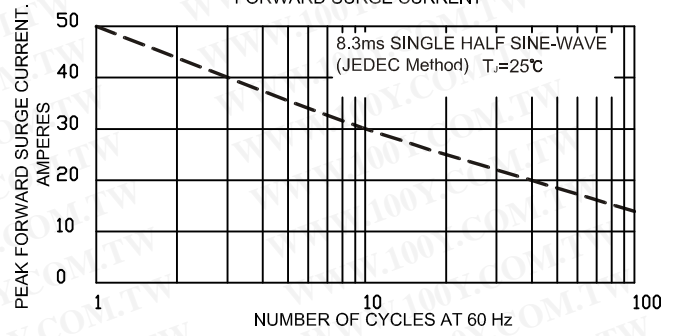


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

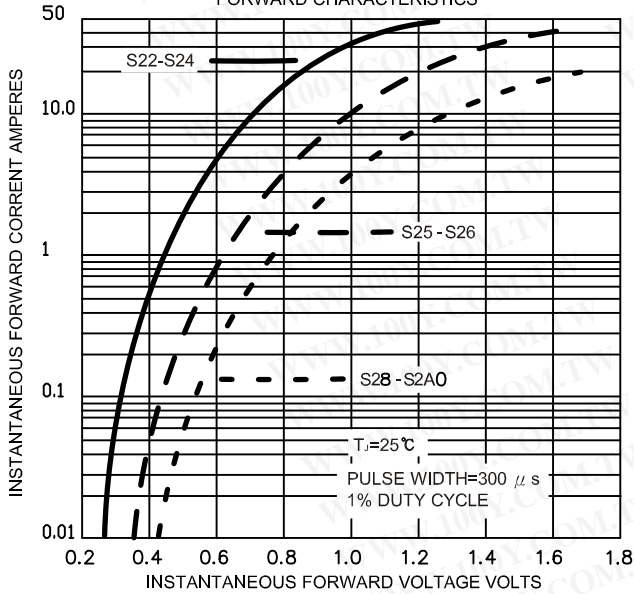


FIG.4 - TYPICAL REVERSE CURRENT CHARACTERISTICS

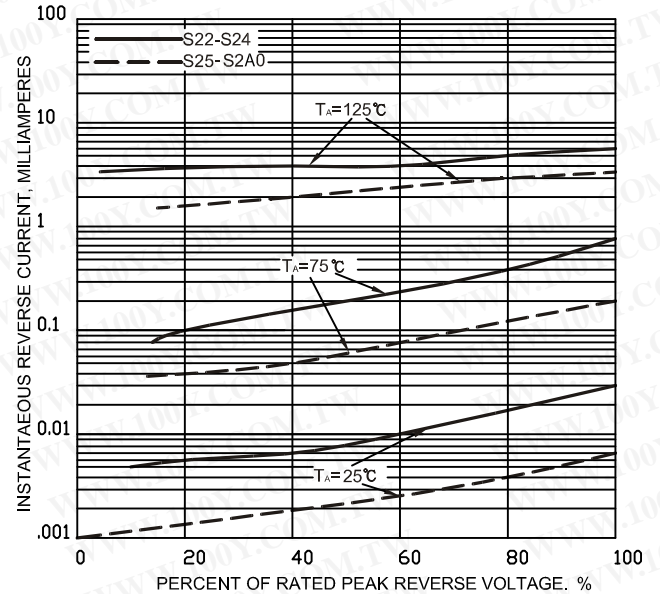
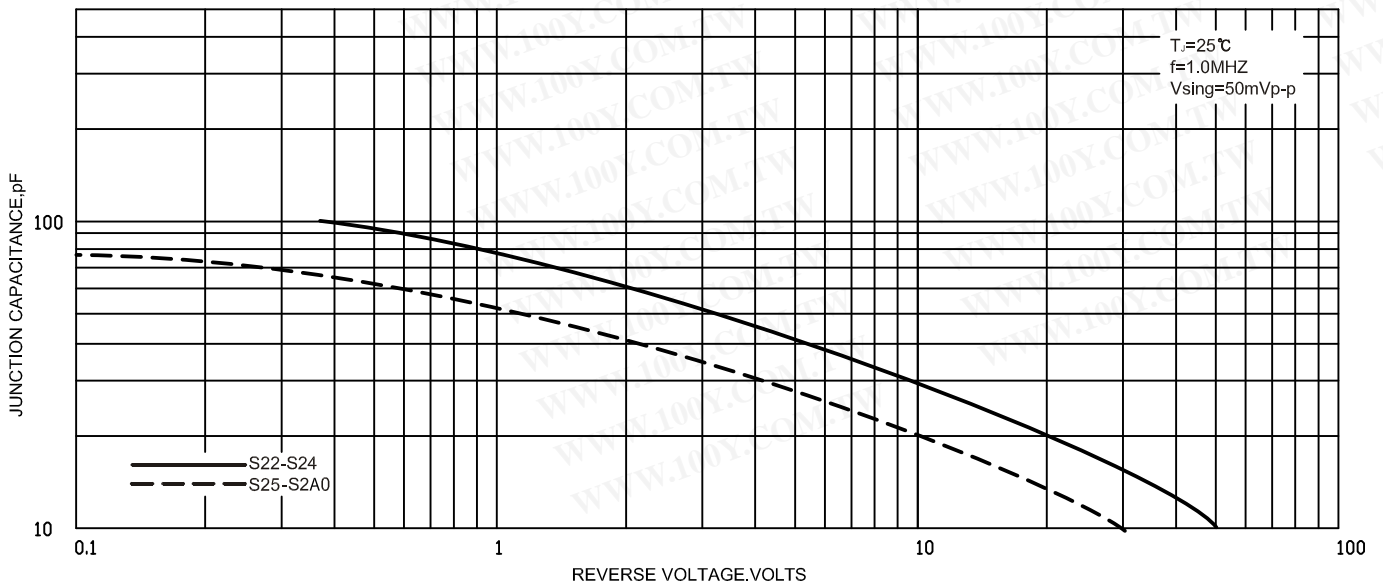


FIG.5 - TYPICAL JUNCTION CAPACITANCE



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