

S32 THRU S3A0

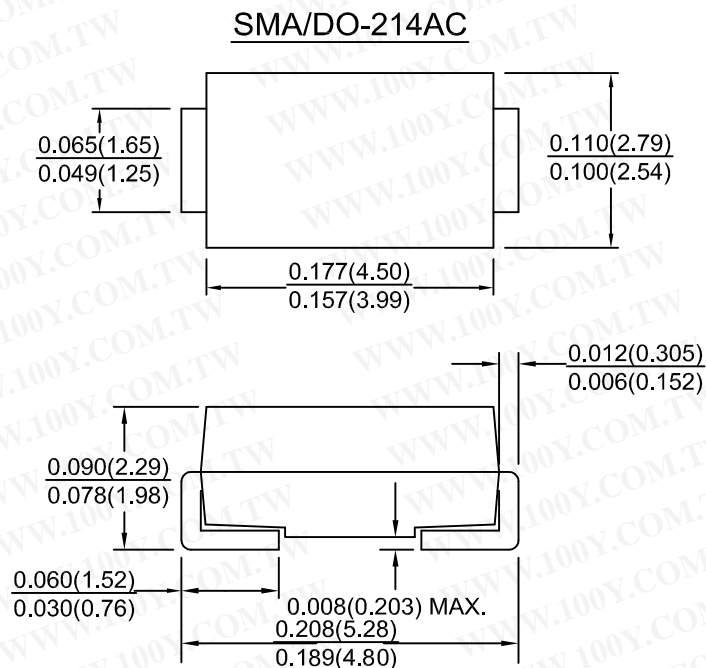
SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

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
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Characteristic	Symbol	S32	S33	S34	S35	S36	S38	S39	S3A0	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)	$I_{(AV)}$	3.0								Amps	
Peak forward surge current 8.3mm single half sine-wave superimposed on rated load(JEDEC Method)	I_{FSM}	90.0								Amps	
Maximum instantaneous forward voltage at 3.0 A(NOTE 1)	V_F	0.5	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						-55 to +150			°C	
Storage temperature range	T_{stg}						-55 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 S32 THRU S3A0

FIG.1 - FORWARD CURRENT DERATING CURVE

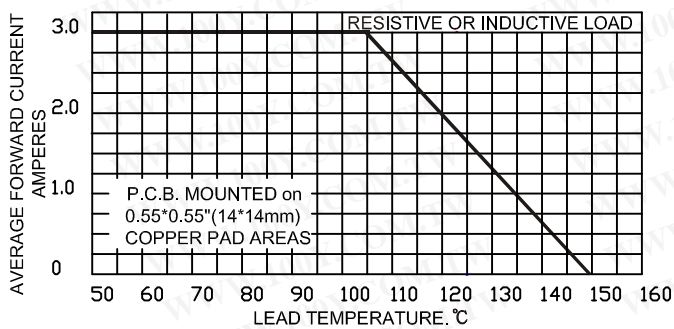


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

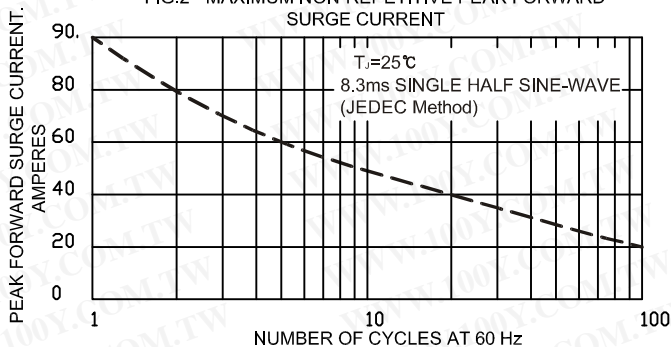


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

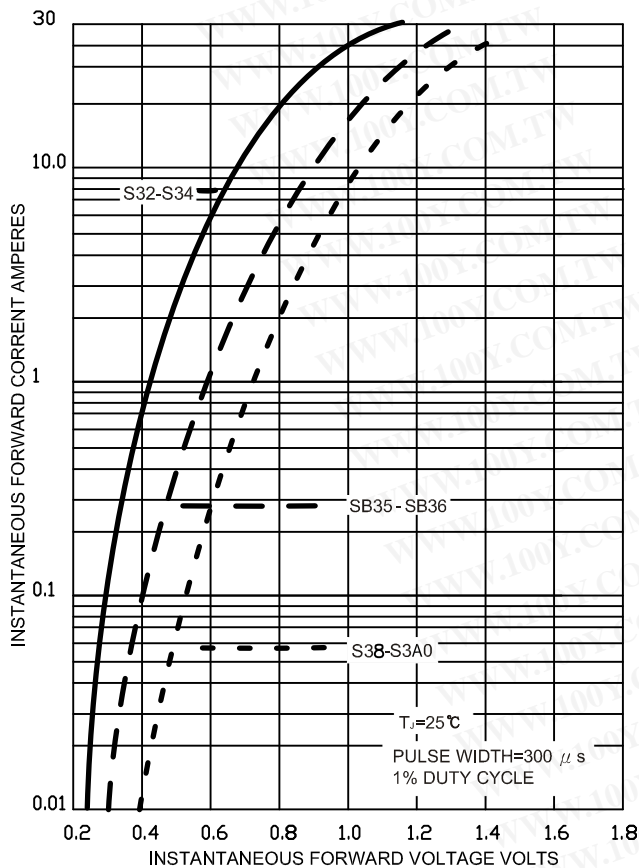


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

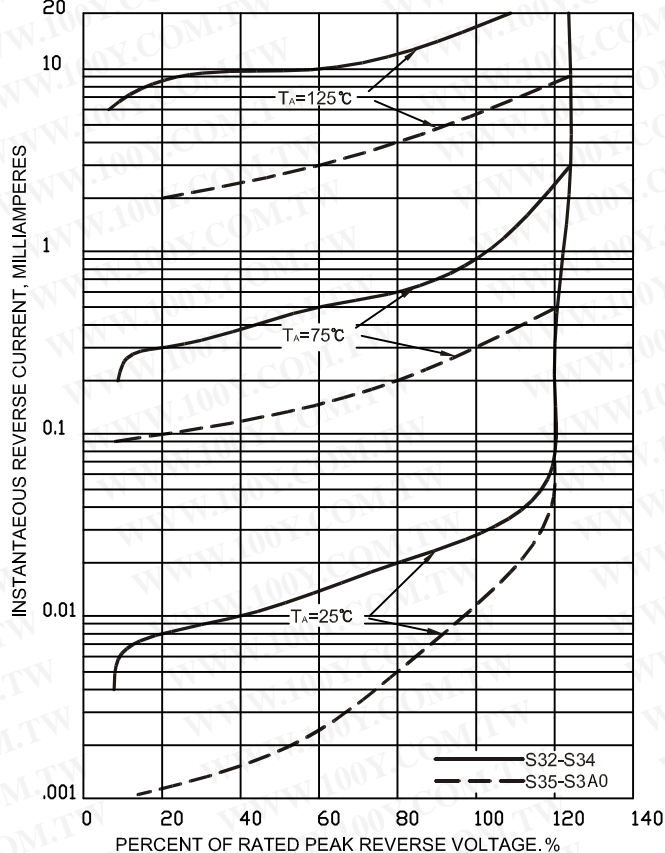


FIG.5 - TYPICAL JUNCTION CAPACITANCE

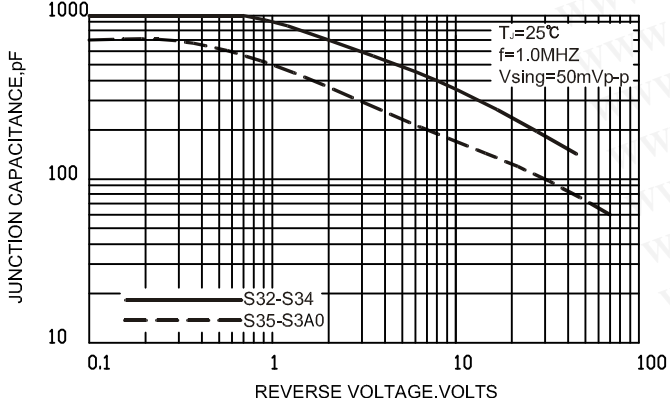
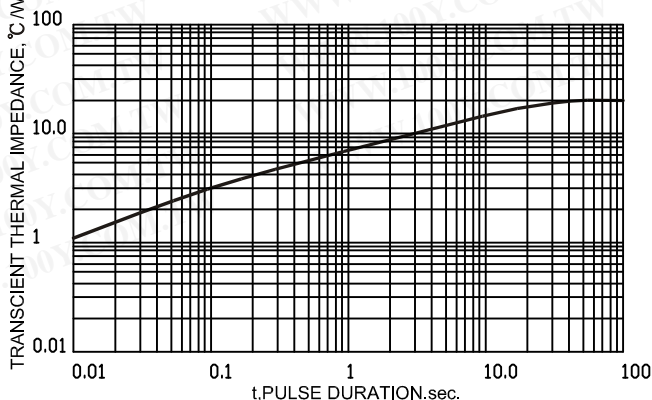


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



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