



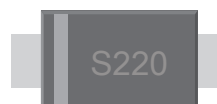
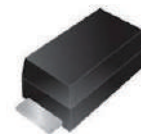
PRIMARY CHARACTERISTICS

V_{RRM}	20V~200V
I_{AV}	2.0A
V_F	0.55V,0.70V,0.85V,0.95V
$T_{J,Max}$	150°C

SCHEMATIC DIAGRAM
SOD-123S PACKAGE

Marking : See Table

Ex : SS220SN



FEATURES

- For surface mounted applications
- High current capacity
- Built-in strain relief
- Low profile package
- Metal to silicon rectifier. majority carrier conduction
- High surge capacity
- Low power loss, high efficiency
- High temperature soldering : 250°C /10 seconds at terminals
- Moisture Sensitivity Level 1

MECHANICAL DATA

- Case : Molded plastic,SOD-123S
- Polarity : Shown above
- Terminals :Plated terminals, solderable per MIL-STD-750,Method 2026
- Epoxy : UL94-V0 rated flame retardant

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, derate current by 20%.

	Symbols	SS22SN	SS24SN	SS26SN	SS28SN	SS210SN	SS215SN	SS220SN	Units
Marking Code		S22	S24	S26	S28	S210	S215	S220	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	40	60	80	100	150	200	Volts
Maximum RMS Voltage	V _{RMS}	14	28	42	56	70	105	140	Volts
Maximum DC Blocking Voltage	V _{DC}	20	40	60	80	100	150	200	Volts
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	50							Amp
Maximum Forward Voltage at 2.0A (Note 1)	V _F	0.55		0.70	0.85		0.95		Volts
Maximum Reverse Current at T _A =25℃ at Rated DC Blocking Voltage T _A =100℃	I _R	0.5 20							mAmp
Typical Thermal Resistance (Note 2)	R _{0JA}	85							℃/W
	R _{0JL}	28							
Operating Junction Temperature Range	T _J	-55 to +150							℃
Storage Temperature Range	T _{stg}	-55 to +150							℃

NOTES:

1- Pulse test: 300µs pulse width, 1% duty cycle

2- P.C.B. mounted with 5.0 x 5.0mm copper pad areas



RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

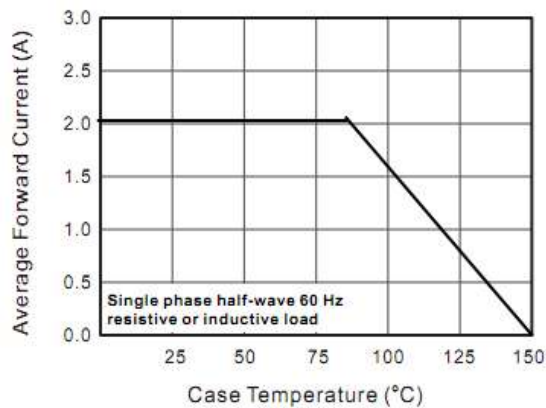


Fig.2 Typical Reverse Characteristics

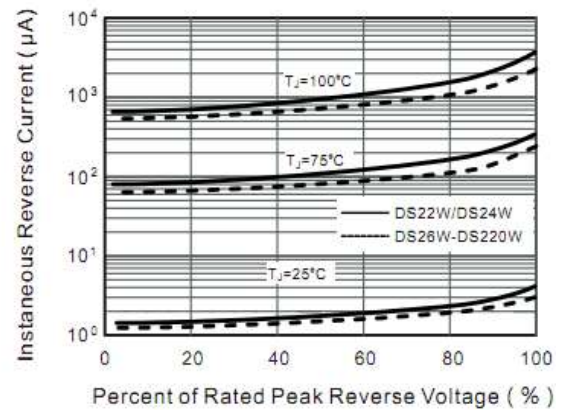


Fig.3 Typical Forward Characteristic

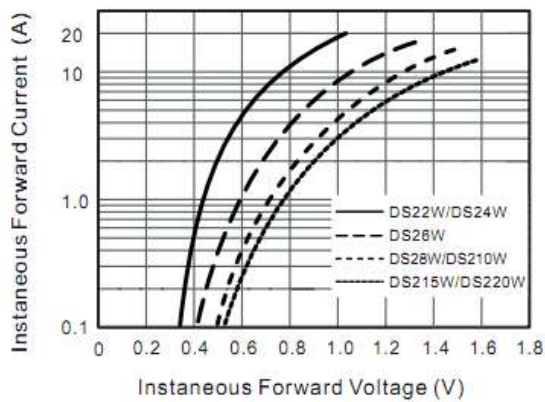
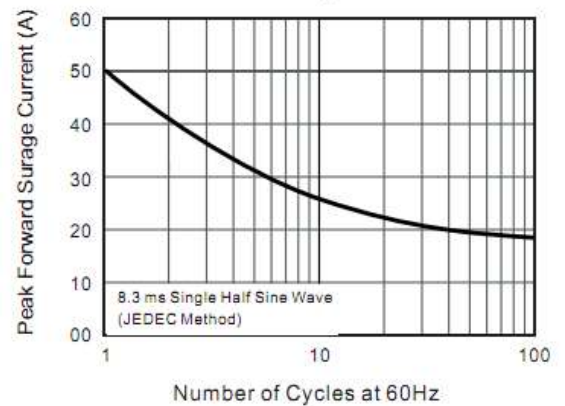


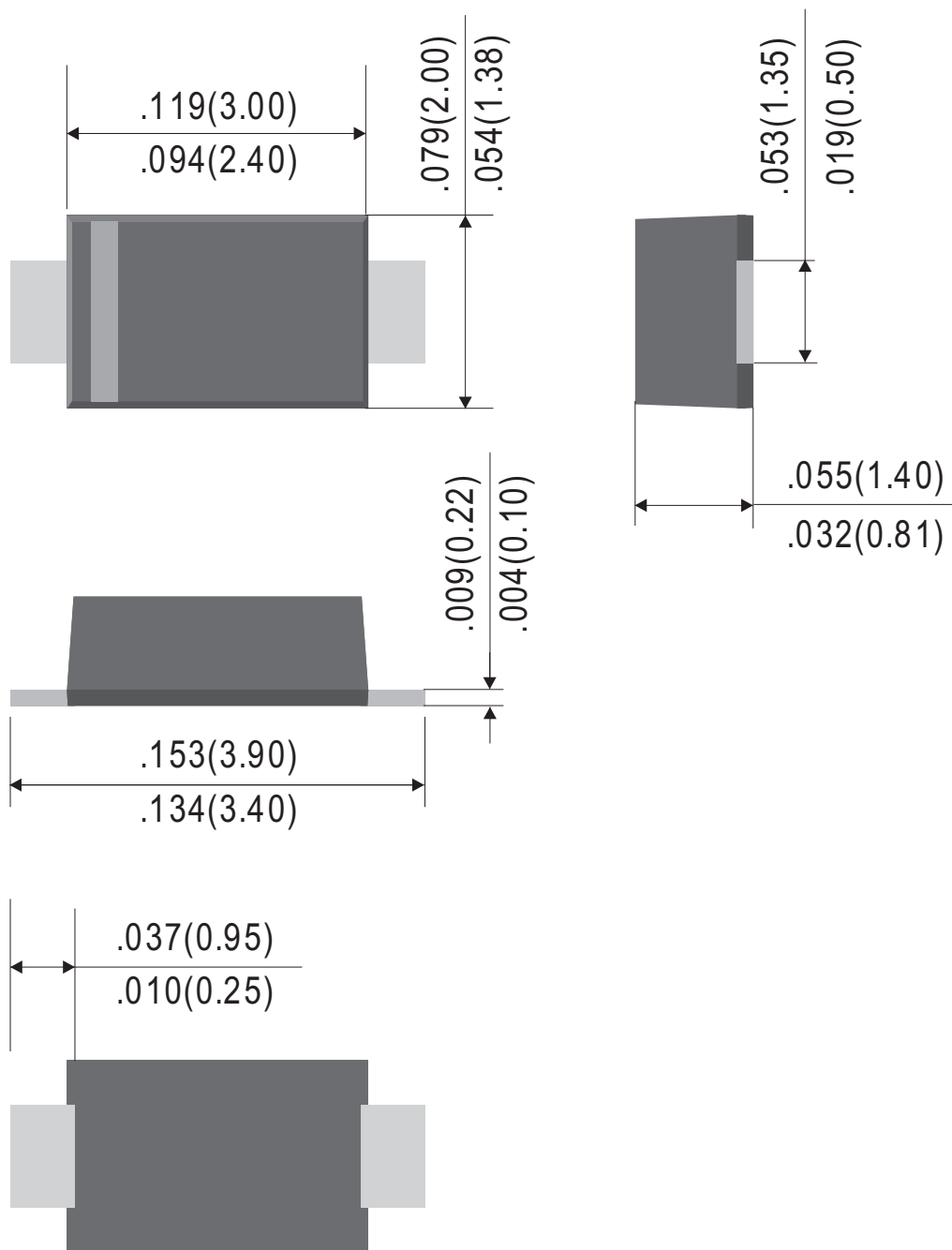
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current





Outline Drawing

SOD-123S



Dimensions in inches and (millimeters)

Rev.H



Ordering Information:

Device PN	Packing
Part Number -T ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape & Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

(3) WS : Willas brand abbreviation, Label Type does not display

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