

# SS32 THUR SS320

## SS32 THUR SS320 Schottky Barrier Rectifiers

### General description

3.0Amp Surface Mounted Schottky Barrier Rectifiers

### FEATURES

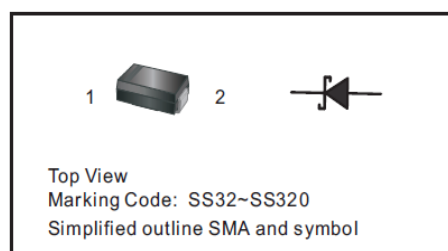
- Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier. majority carrier conduction
- Low power loss,high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Pb free product are available : 99% Sn can meet Rohs environment substance directive request

### MECHANICAL DATA

- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes positive end (cathode)
- Weight: 0.002 ounce, 0.060 gram

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Maximum Ratings And Electrical Characteristics

Parameter	Symbols	SS32	SS34	SS34A	SS36	SS38	SS310	SS312	SS315	SS320	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	45	60	80	100	120	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	31.5	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	45	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	3.0									A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	80									A
Max Instantaneous Forward Voltage at 3 A	$V_F$	0.55	0.70			0.85		0.95			V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Reverse Voltage $T_a = 100^\circ\text{C}$	$I_R$	0.5			0.3		3				mA
Typical Junction Capacitance <sup>(1)</sup>	$C_j$	450			400						pF
Typical Thermal Resistance <sup>(2)</sup>	$R_{\theta JA}$	70									$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 ~ +150									$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ +150									$^\circ\text{C}$

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

## Rating And Characteristic Curves

Fig.1 Forward Current Derating Curve

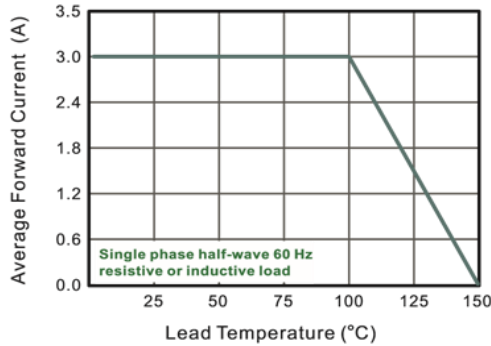


Fig.2 Typical Reverse Characteristics

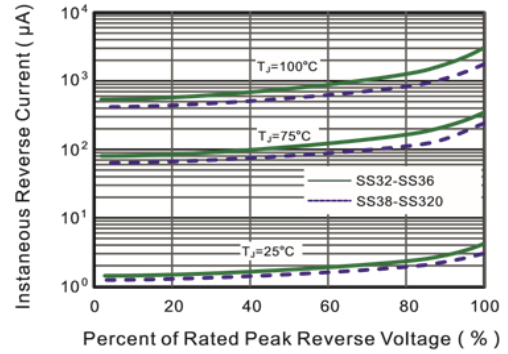


Fig.3 Typical Forward Characteristic

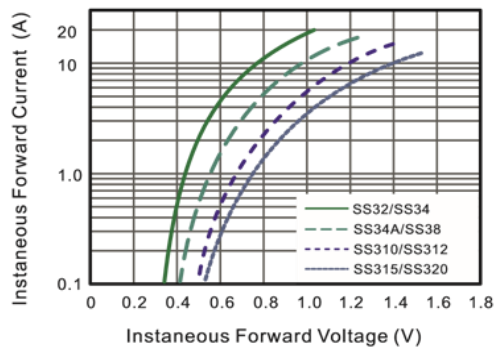


Fig.4 Typical Junction Capacitance

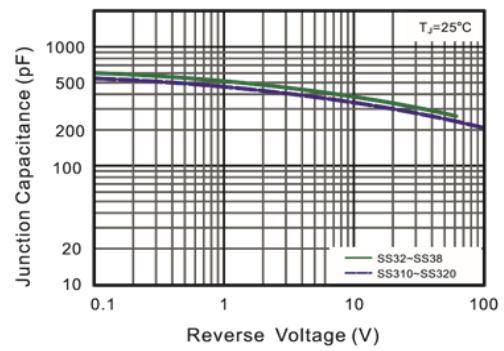


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

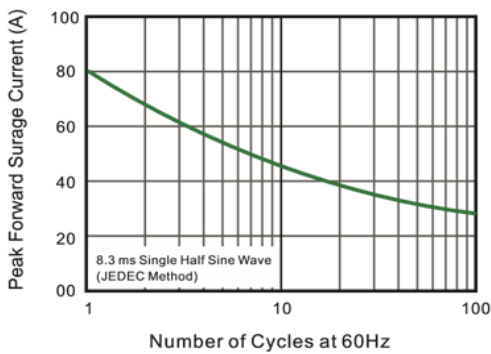
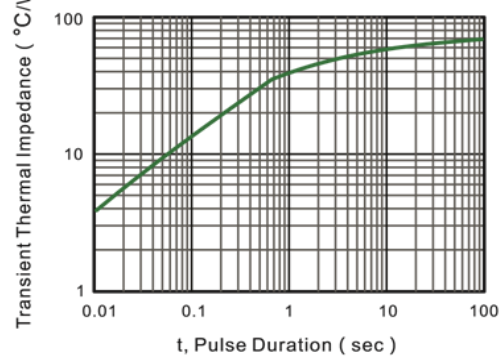


Fig.5- Typical Transient Thermal Impedance

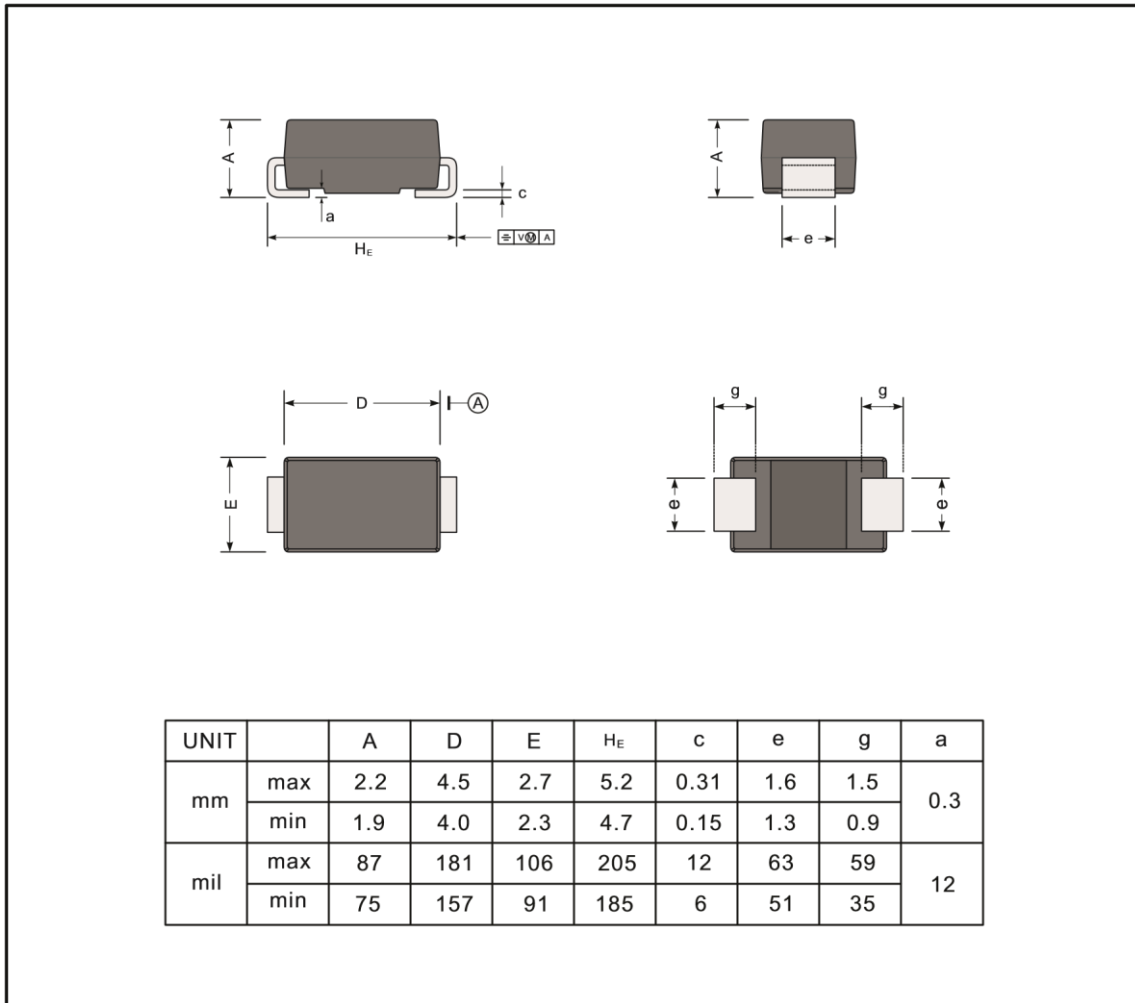


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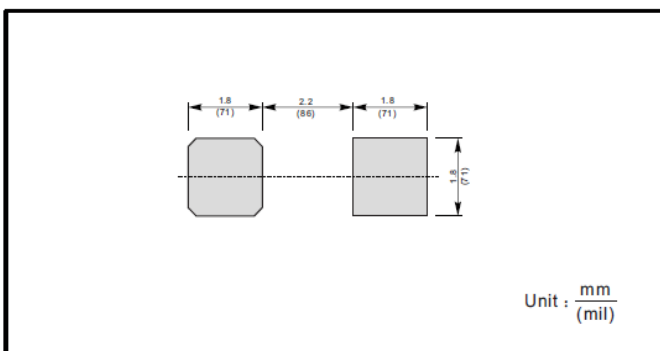
## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



### The recommended mounting pad size



### Marking

Type number	Marking code
SS32	SS32
SS34	SS34
SS34A	SS34A
SS36	SS36
SS38	SS38
SS310	SS310
SS312	SS312
SS315	SS315
SS320	SS320

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