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

Top View
Marking Code: SS32~SS320
Simplified outline SMA and symbol

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°C at Rated DC Reverse Voltage T_a =100°C	I_R	0.5 5				0.3 3					mA
Typical Junction Capacitance (1)	C_j	450				400					pF
Typical Thermal Resistance (2)	$R_{\theta JA}$	70									°C/W
Operating Junction Temperature Range	T_j	-55 ~ +150									°C
Storage Temperature Range	T_{stg}	-55 ~ +150									°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.

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Rating And Characteristic Curves

Fig.1 Forward Current Derating Curve

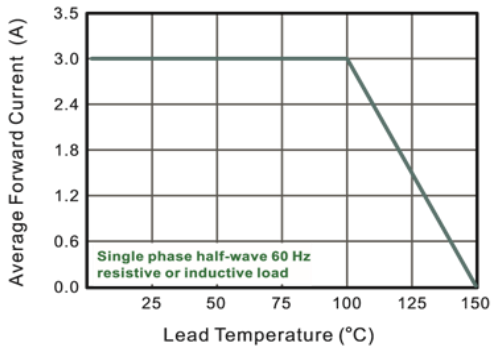


Fig.2 Typical Reverse Characteristics

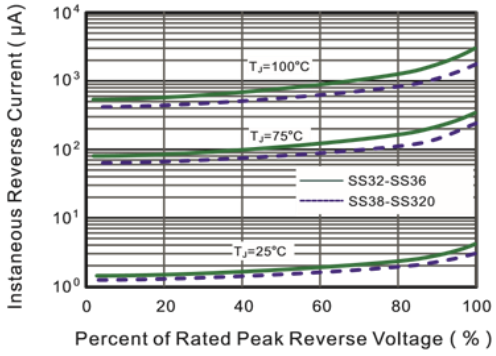


Fig.3 Typical Forward Characteristic

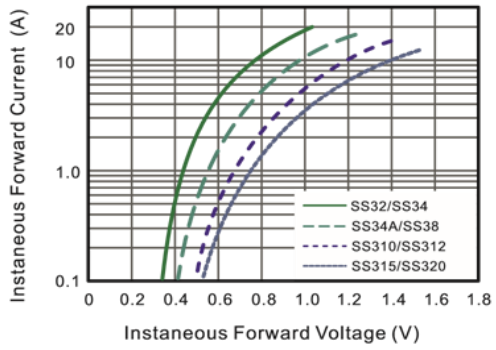


Fig.4 Typical Junction Capacitance

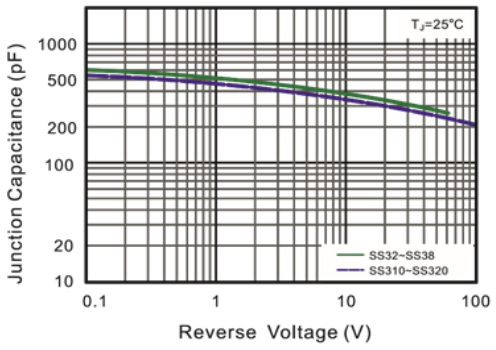


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

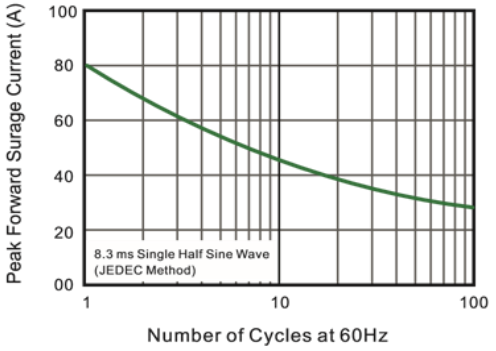
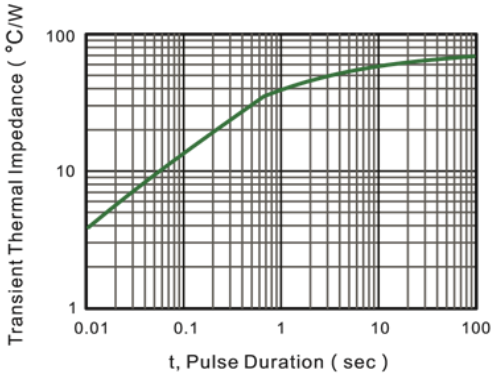


Fig.5- Typical Transient Thermal Impedance



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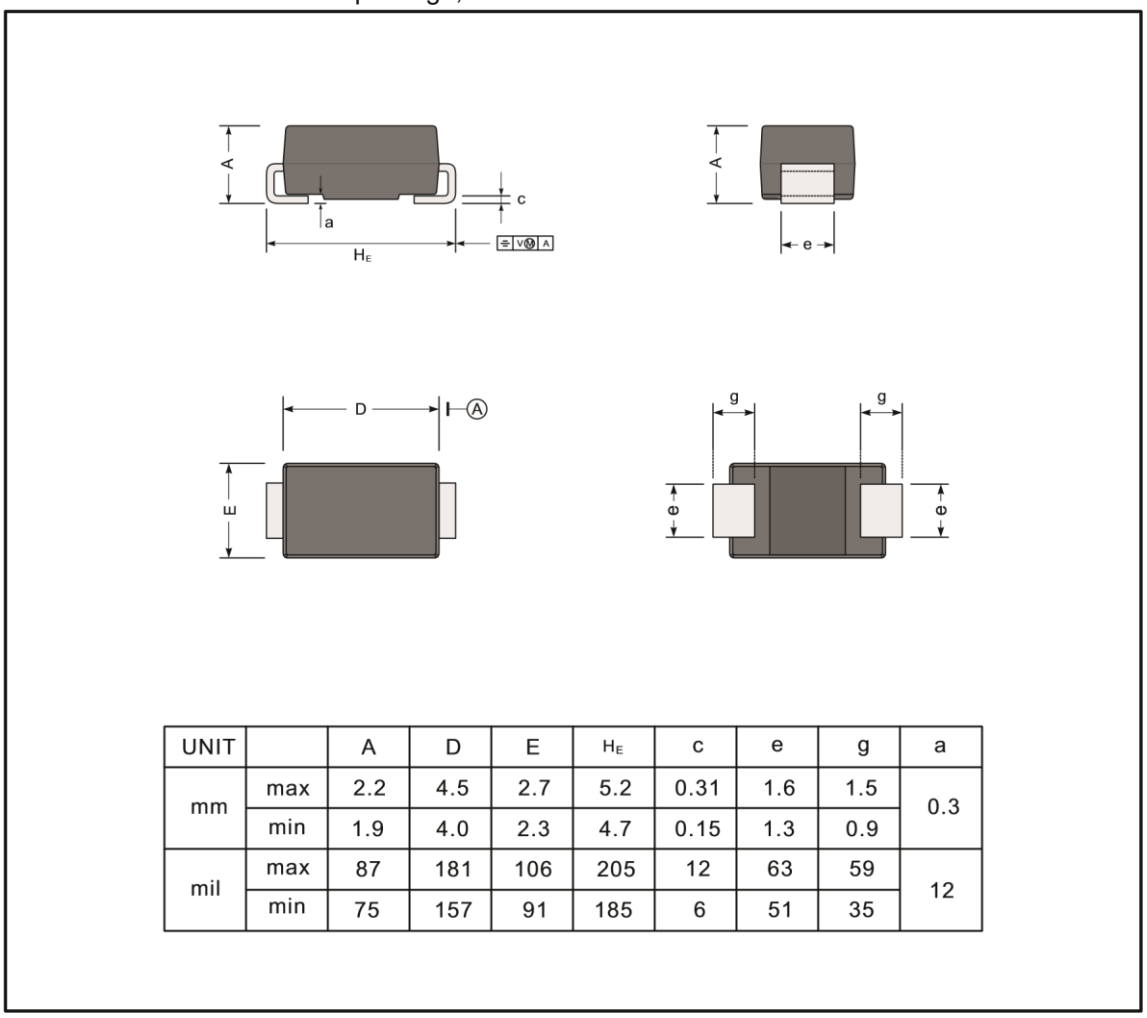
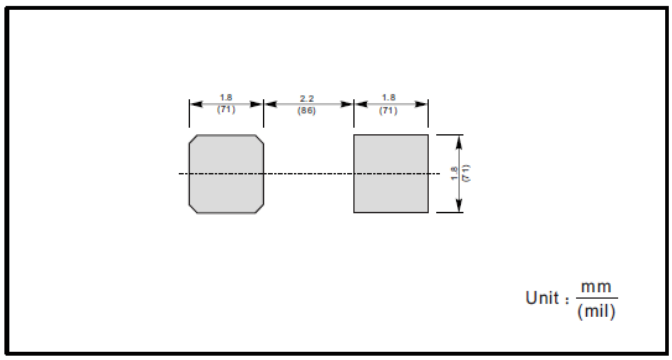
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads SMA



UNIT		A	D	E	H_E	c	e	g	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

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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