

Description

The SS32F~SS320F is Surface Mount Schottky Barrier Rectifier, Reverse Voltage: 20 to 200 V, Forward Current: 3.0A, SMAF thin package.

Features

- Low power loss
- High efficiency
- High forward surge current capability
- For use in low voltage
- High frequency inverters
- Polarity protection applications
- For surface mounted applications
- Halogen free product.
- Msl: 3

Applications

- General purpose.

Equivalent Circuit & Pinning

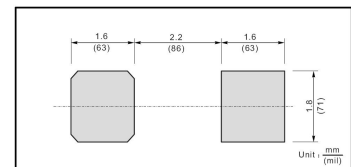


Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



Marking

- See Marking Instructions.

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating									Unit
		SS32F	SS34F	SS34AF	SS36F	SS38F	SS310F	SS312F	SS315F	SS320F	
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				70					A
Typical Thermal Resistance ¹⁾	R _{θJA}	55									°C/W
Total Power Dissipation	P _D	2.27									W
Operating Junction Temperature Range	T _j	-55~+125									°C
Storage Temperature Range	T _{stg}	-55~+150									°C

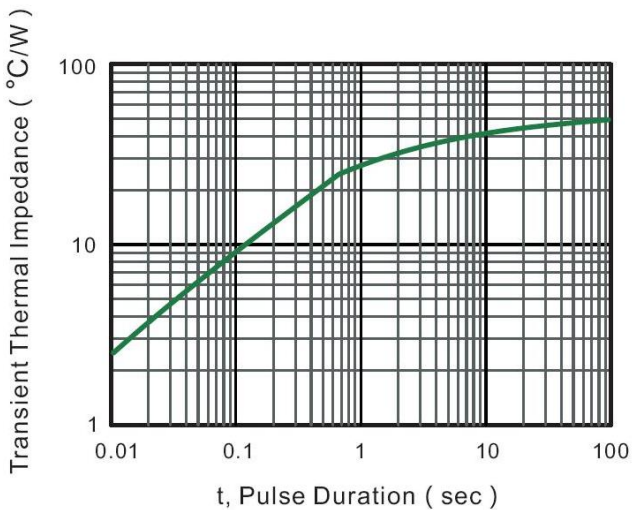
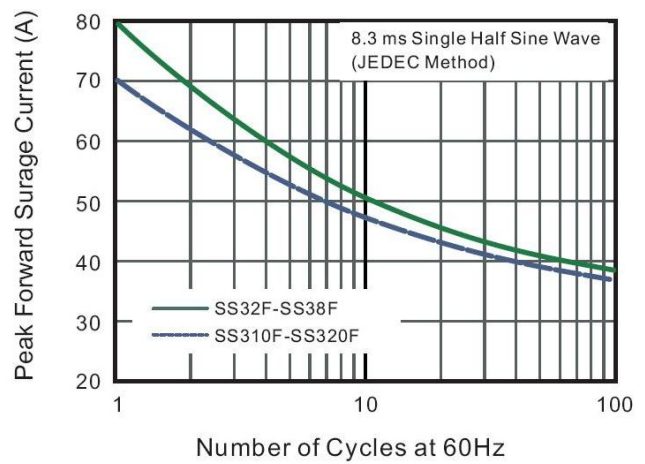
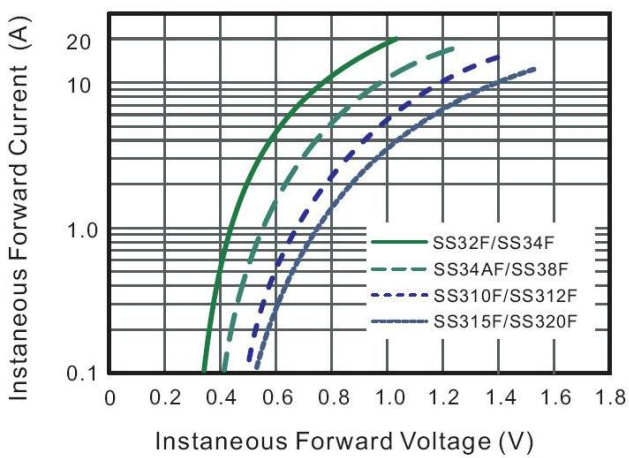
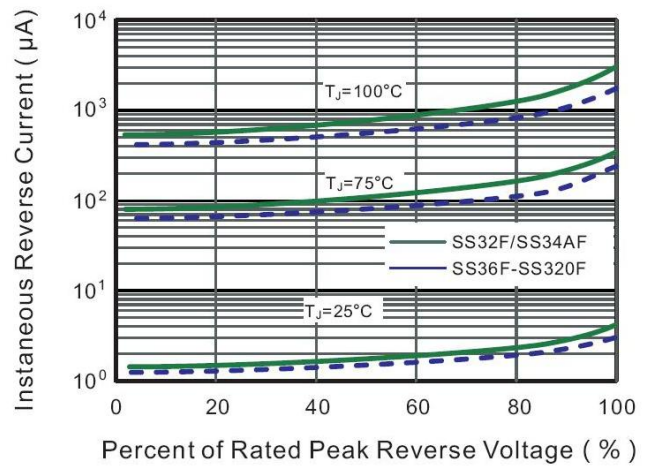
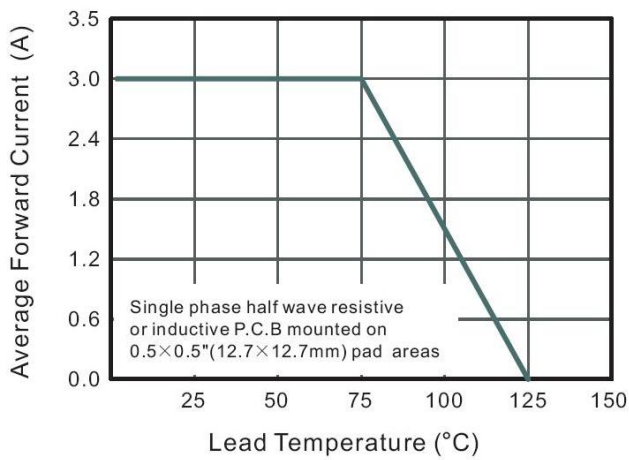
Note:

1) P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating								Unit	
			SS32F	SS34F	SS34AF	SS36F	SS38F	SS310F	SS312F	SS315F		SS320F
Max Instantaneous Forward Voltage	V _F	I _F =3.0A	0.55		0.70			0.85		0.95		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I _R	T _a =25°C	0.5				0.3					mA
		T _a =100°C	5.0				/					
		T _a =125°C	/				5.0					

Electrical Characteristic Curve



Marking instructions



Note:

SS34 : Product Type Code

**** : Lot No. Code , The 1st * means:YM Code ,
The last 3 * means : little Lot No Code

Marking

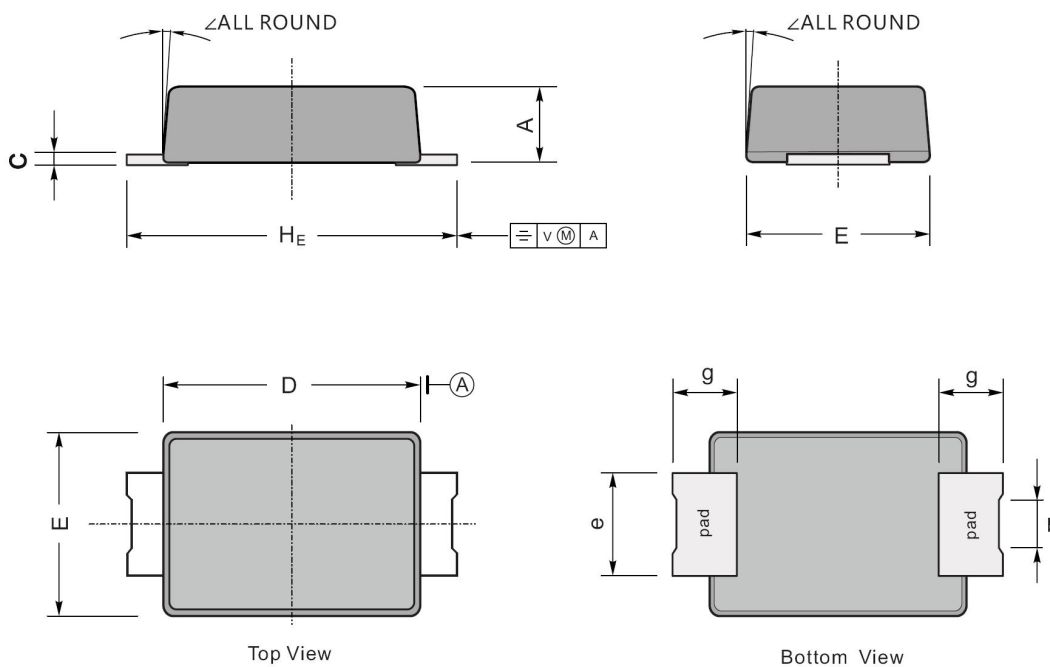
Type number	Marking code
SS32F	SS32
SS34F	SS34
SS34AF	SS34A
SS36F	SS36
SS38F	SS38
SS310F	SS310
SS312F	SS312
SS315F	SS315
SS320F	SS320

Packaging SPEC.

REEL

Package Type	Units					Dimension (unit: mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SMAF	3000	5	15000	5	75000	7" ×11	185X180X105	390X385X205

Package Dimensions



UNIT		A	C	D	E	e	g	H _E	b	∠
mm	max	1.2	0.20	3.7	2.7	1.6	1.2	4.9	1.05	7°
	min	0.9	0.12	3.3	2.4	1.3	0.8	4.4	0.65	
mil	max	47	7.9	146	106	63	47	193	41	
	min	35	4.7	130	94	51	31	173	26	