

Descriptions

This is surface mount schottky barrier diode, SMA package.

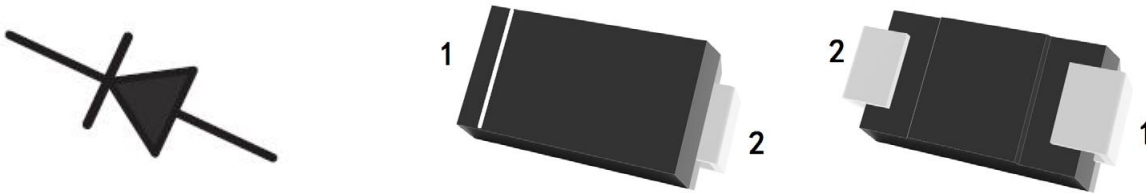
Features

- Low power loss
- high efficiency
- High forward surge current capability
- Lead free in comply with EU RoHS 2011/65/EU directives
- For surface mounted applications,HF product

Applications

General purpose

Equivalent Circuit & Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

SMA

Absolute Maximum Ratings(Ta=25°C)

Parameter	Symbol	Rating									Unit
		SS32	SS34	SS345	SS36	SS38	SS310	SS312	SS315	SS320	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	45	60	80	100	120	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	32	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 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	80									A
Typical Junction Capacitance	C _j	250			180						pF
Typical Thermal Resistance ¹⁾	R _{θJA}	70									°C/W
Operating and Storage Temperature Range	T _J , T _{stg}	-55~+150									°C

Note:

1) P.C.B. mounted with 2.0 X 2.0" (5 X5 cm) copper pad areas.

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating									Unit
			SS32	SS34	SS345	SS36	SS38	SS310	SS312	SS315	SS320	
Maximum 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 Blocking Voltage	I _R	T _a =25℃	0.5			0.3						mA
		T _a =100℃	5.0			3.0						mA

Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

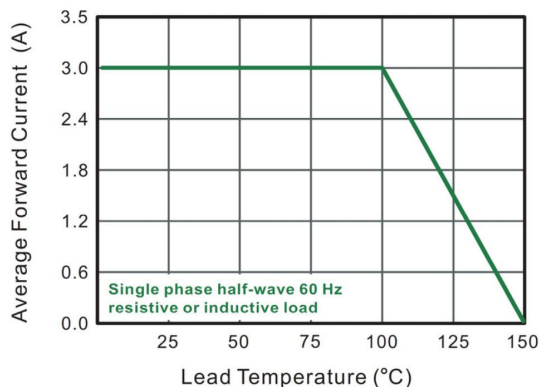


Fig.2 Typical Reverse Characteristics

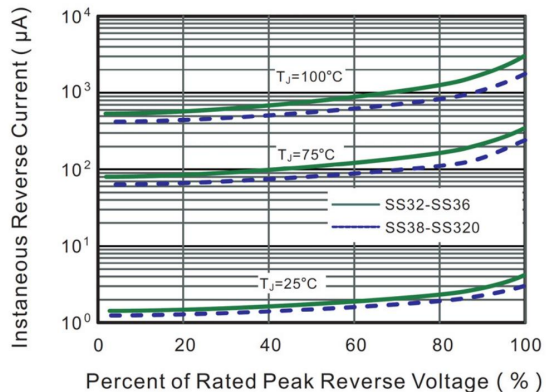


Fig.3 Typical Forward Characteristic

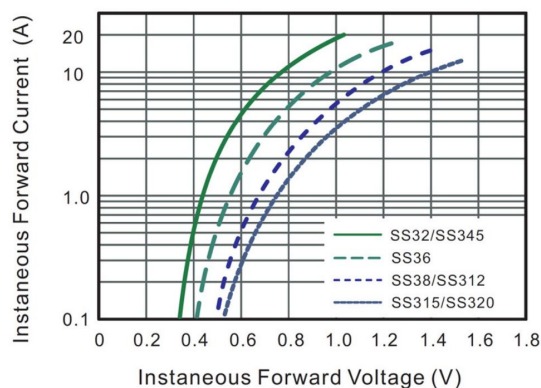


Fig.4 Typical Junction Capacitance

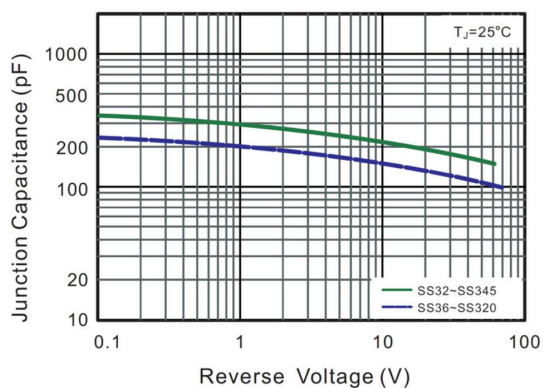


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

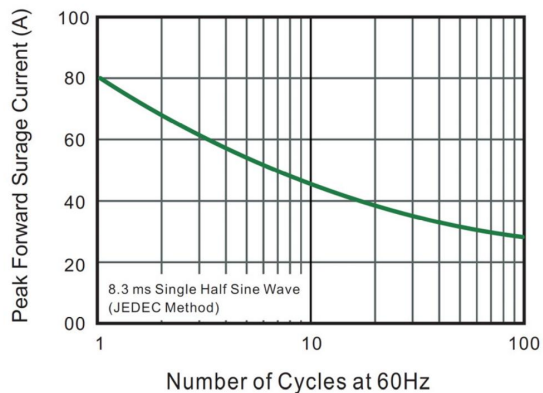
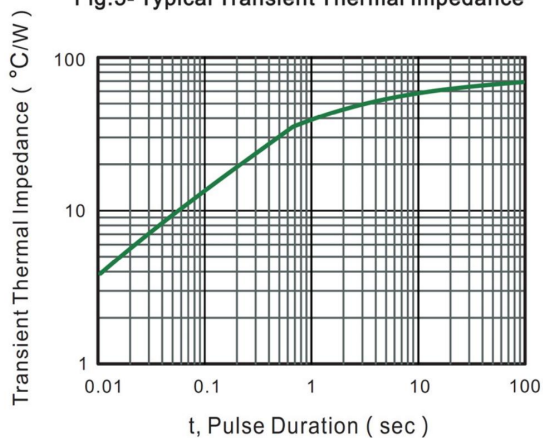


Fig.5- Typical Transient Thermal Impedance



Marking Instructions



Type number	Marking code
SS32	SS32
SS34	SS34
SS345	SS345
SS36	SS36
SS38	SS38
SS310	SS310
SS312	SS312
SS315	SS315
SS320	SS320

Note:

SS32: Product Type Code

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

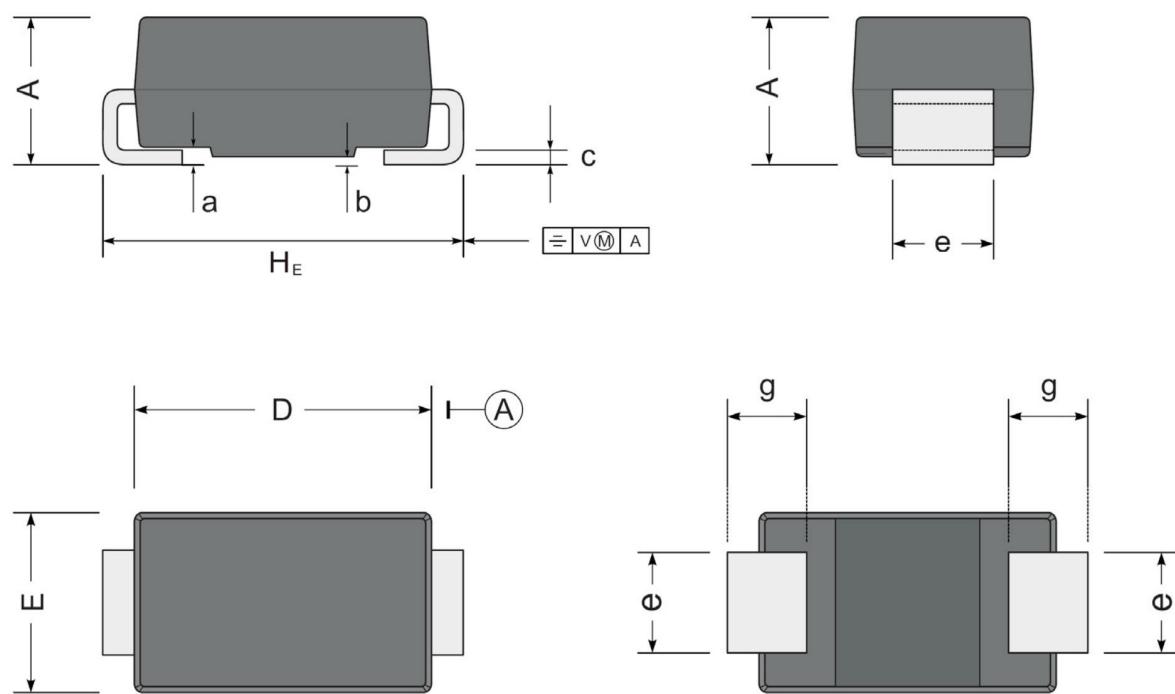
Packaging SPEC

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
SMA	5000	2	10000	7	70000	13" ×12	336X336X40	380X335X366

Package Outline Dimensions

SMA



UNIT		A	D	E	H _E	c	e	g	b	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.2	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	0.05	
mil	max	87	181	106	205	12	63	59	7.9	12
	min	75	157	91	185	6	51	35	2	