

Description

The SS32~SS320 is surface mount schottky barrier diode, SMA package.

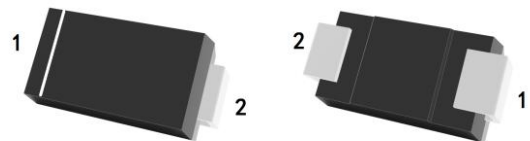
Applications

- General purpose.

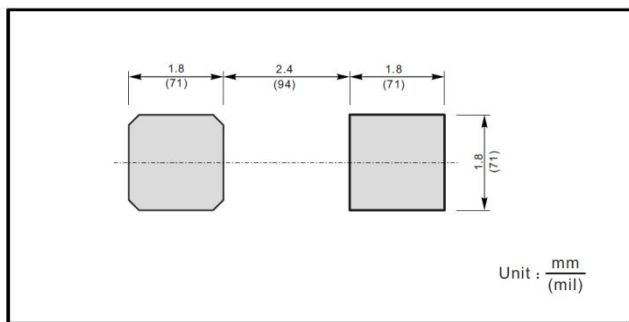
Features

- Reverse voltage : 20 to 200V
- Forward current: 3.0A
- 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
- Halogen-free productt

Equivalent Circuit & Pinning



The recommended mounting pad size



PIN	DESCRIPTION
1	Cathode
2	Anode

Marking

- See Marking Instructions.

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⁾	$R_{\theta JA}$	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	
Maximum Instantaneous Forward Voltage	V_F	$I_F=3.0A$	0.55			0.7 0	0.85		0.95		V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	$T_a=25^\circ C$	0.5				0.3				mA
		$T_a=100^\circ C$	5.0				3.0				mA

Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

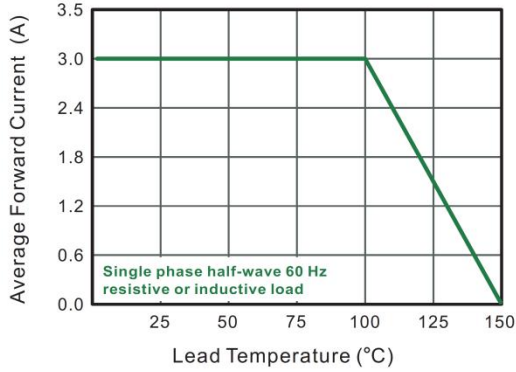


Fig.2 Typical Reverse Characteristics

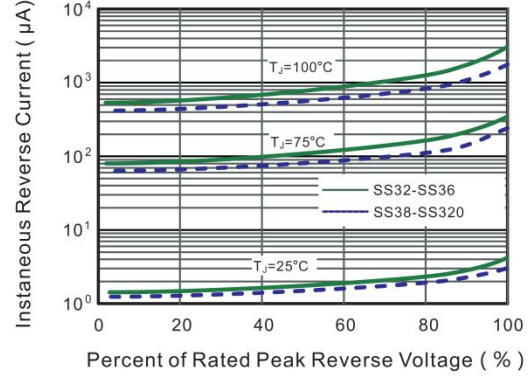


Fig.3 Typical Forward Characteristic

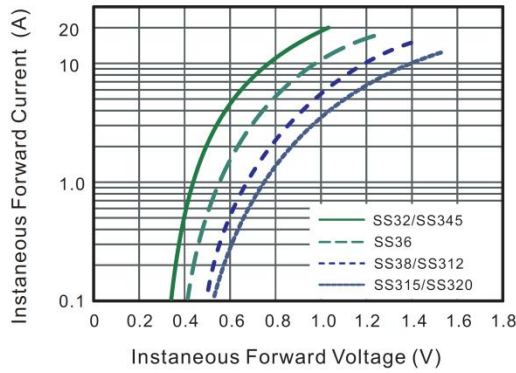


Fig.4 Typical Junction Capacitance

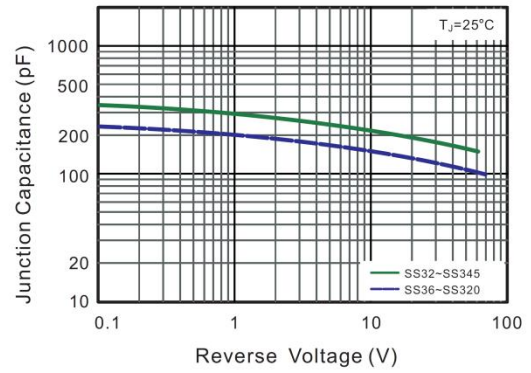


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

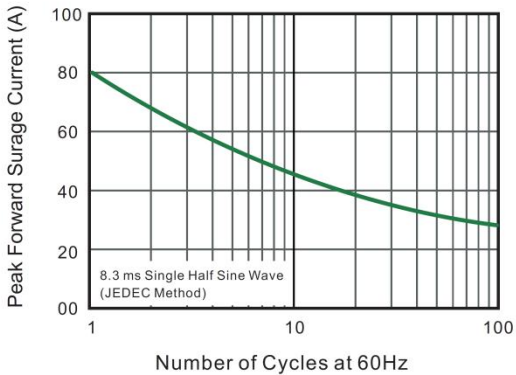
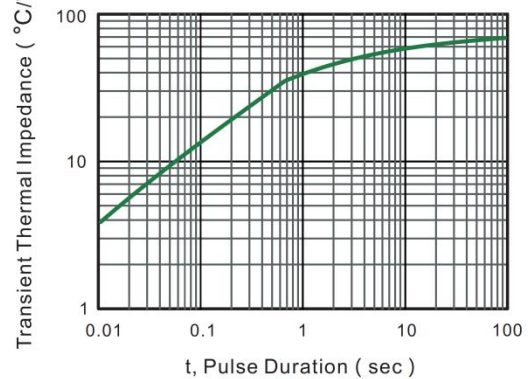


Fig.5- Typical Transient Thermal Impedance



Marking instructions



Note:

SS34 : Product Type Code

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

Marking

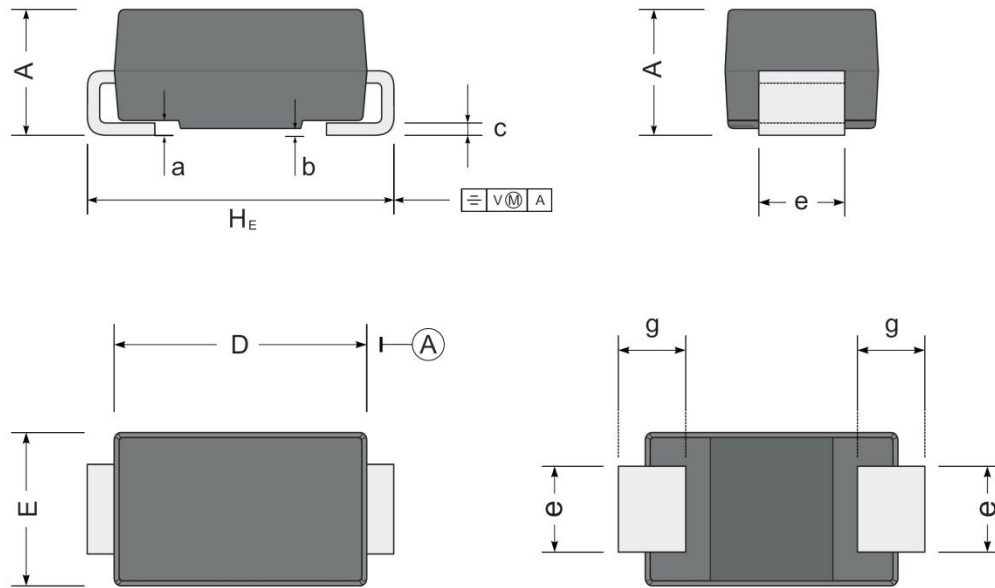
Type number	Marking code
SS32	SS32
SS34	SS34
SS345	SS345
SS36	SS36
SS38	SS38
SS310	SS310
SS312	SS312
SS315	SS315
SS320	SS320

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

Package Outline Dimensions



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	