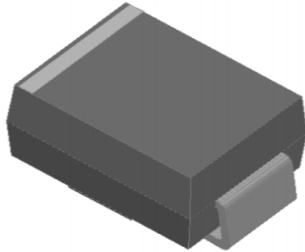


Reverse Voltage - 20 to 200 V

Forward Current - 3.0A



Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 60mg / 0.0021oz

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Parameter	Symbols	SS32A	SS34A	SS36A	SS310A	SS315A	SS320A	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	40	60	100	150	200	V
Maximum RMS voltage	V _{RMS}	14	28	42	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	60	100	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			0.1 3			mA
Typical Junction Capacitance ⁽¹⁾	C _j	150			85	60		pF
Typical Thermal Resistance ⁽²⁾	R _{θJA}	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.

Typical Characteristics

Fig.1 Forward Current Derating Curve

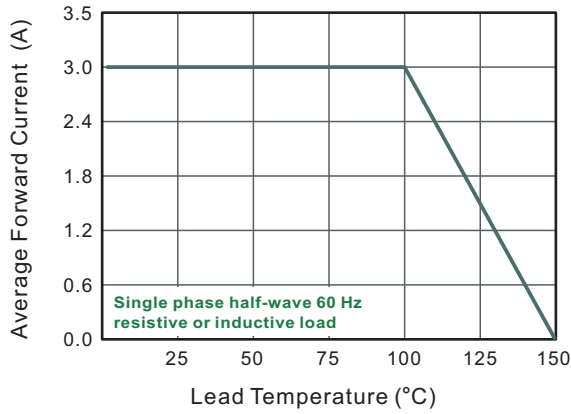


Fig.2 Typical Reverse Characteristics

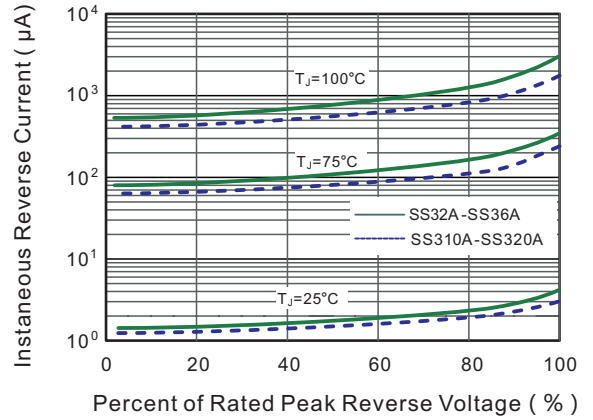


Fig.3 Typical Forward Characteristic

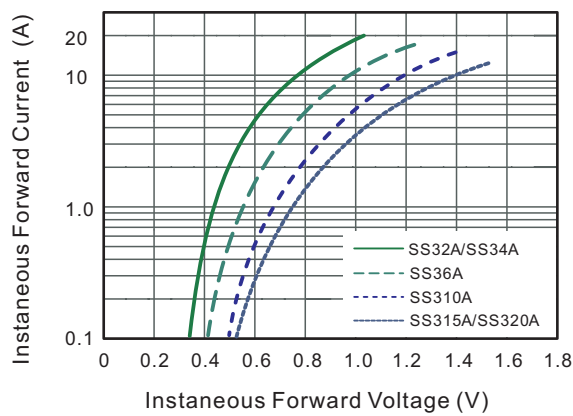


Fig.4 Maximum Non-Repetitive Peak Forward Surge Current

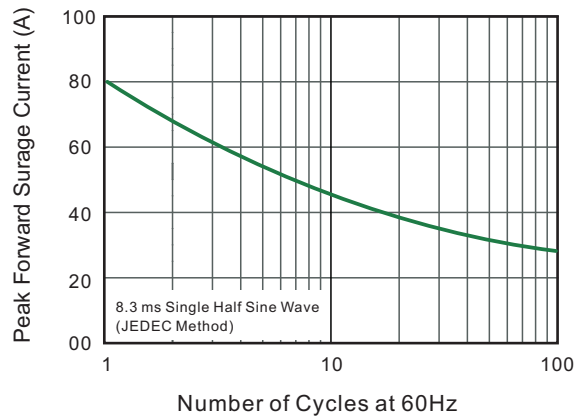
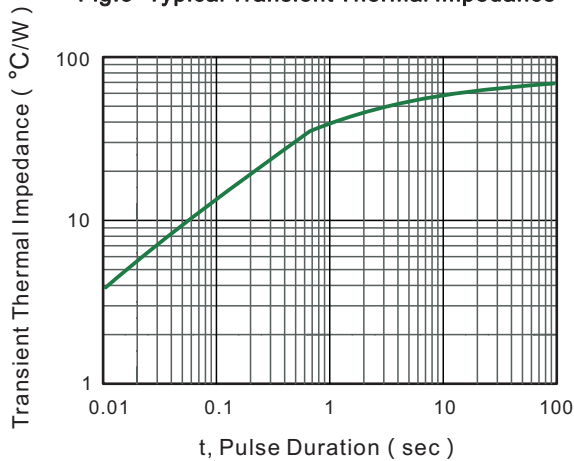


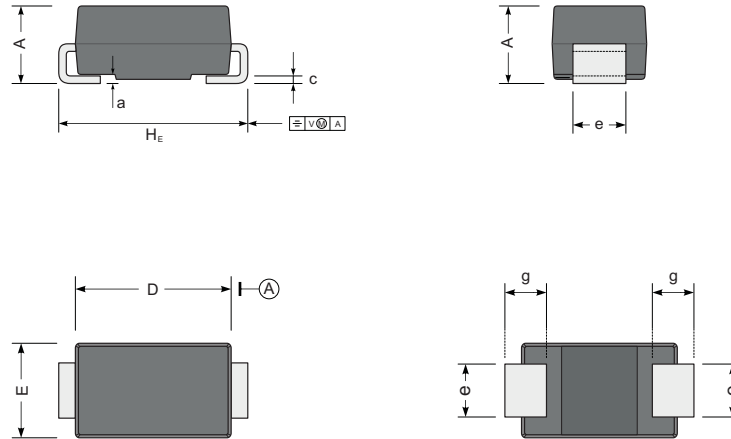
Fig.5- Typical Transient Thermal Impedance



PACKAGE OUTLINE

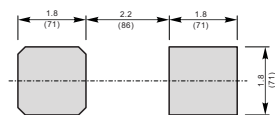
Plastic surface mounted package; 2 leads

SMA(DO-214AC)



UNIT		A	D	E	H _E	c	e	g	a
mm	max	2.3	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	90	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

The recommended mounting pad size



Unit : $\frac{\text{mm}}{(\text{mil})}$

Marking

Type number	Marking code
SS32A	SS32
SS34A	SS34
SS36A	SS36
SS310A	SS310
SS315A	SS315
SS320A	SS320