

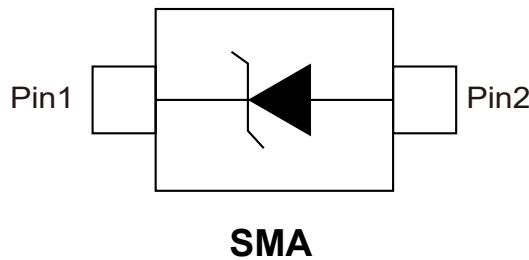
1. Features

- 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

2. Mechanical Data

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

3. Pinning information





4. Maximum Ratings And Electrical Characteristics

Parameter	Symbols	SS 52A	SS 54A	SS 56A	SS 58A	SS 510A	SS 512A	SS 515A	SS 520A	Units						
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	40	60	80	100	120	150	200	V						
Maximum RMS Voltage	V_{RMS}	14	28	42	56	70	84	105	140	V						
Maximum DC Blocking Voltage	V_{DC}	20	40	60	80	100	120	150	200	V						
Maximum Average Forward Rectified Current	$I_{F(AV)}$	5						A								
Peak Forward Surge Current, 8.3ms	I_{FSM}	125						A								
Single Half Sine-wave Superimposed on Rated Load (JEDEC method)																
Max Instantaneous Forward Voltage at 5 A	V_F	0.55		0.70		0.85		V								
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ C$	I_R	1.0						mA							
	$T_A=100^\circ C$		50						mA							
Typical Junction Capacitance (Note1)	C_J	200						pF								
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	60						$^\circ C/W$								
Junction Temperature Range	T_J	-55 to 150						$^\circ C$								
Storage Temperature Range	T_{STG}	-55 to 150						$^\circ C$								

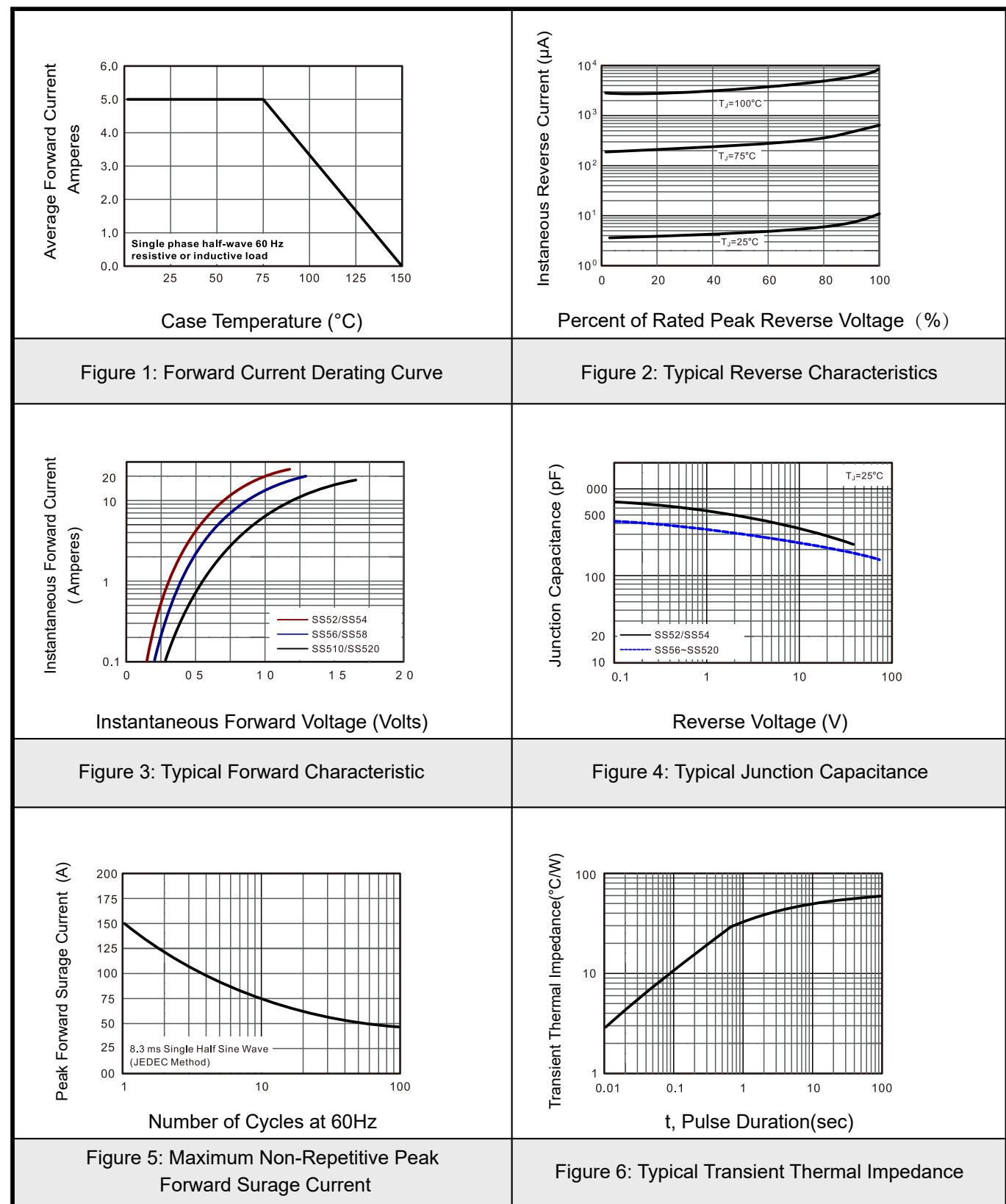
Absolute Maximum Ratings and Electrical characteristics Ratings at ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

Notes:

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.

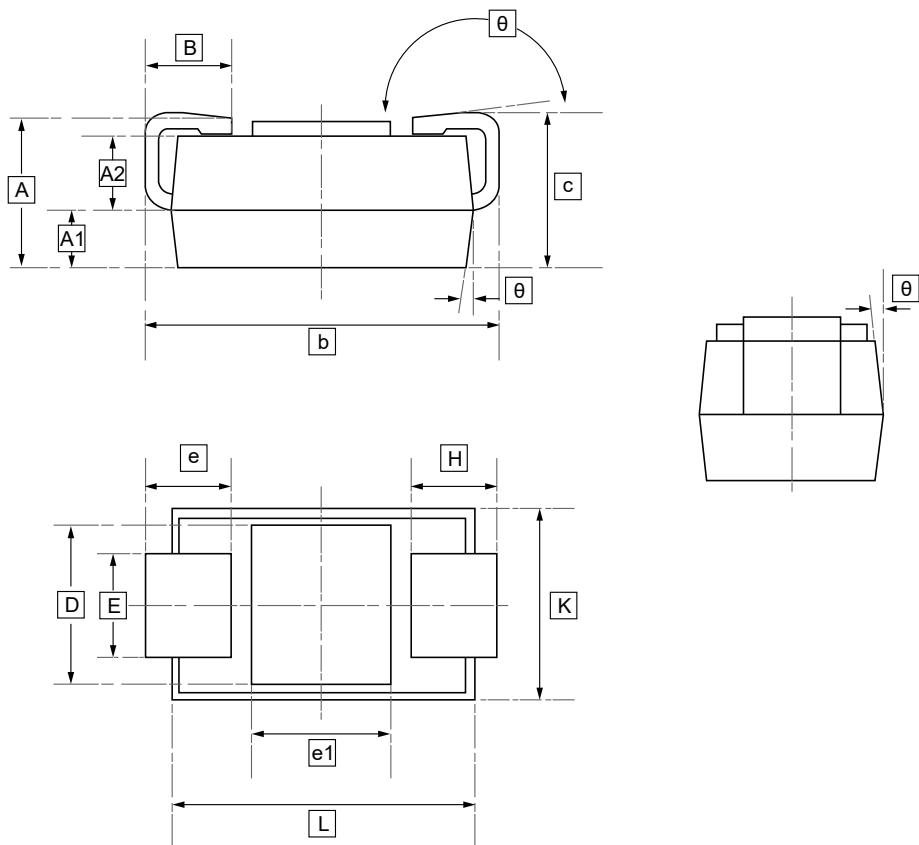


5.Typical characteristic





6.SMA Package Outline Dimensions



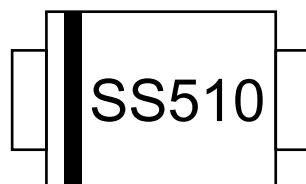
DIMENSIONS (mm are the original dimensions)

Symbol	A	A1	A2	B	b	c	D	E	e1	L	K	θ
Min	1.95	0.77	0.97	1.10	4.95	2.00	2.09	1.38	1.95	4.25	2.60	0°
Max	2.05	0.83	1.03	1.30	5.15	2.20	2.19	1.42	2.05	4.35	2.65	5°

Notes: e-H<0.15mm



7 .Ordering information



Order Code	Marking	Package	Base QTY	Delivery Mode
UMW SS52A	SS52	SMA	2000	Tape and reel
UMW SS54A	SS54	SMA	2000	Tape and reel
UMW SS56A	SS56	SMA	2000	Tape and reel
UMW SS58A	SS58	SMA	2000	Tape and reel
UMW SS510A	SS510	SMA	2000	Tape and reel
UMW SS512A	SS512	SMA	2000	Tape and reel
UMW SS515A	SS515	SMA	2000	Tape and reel
UMW SS520A	SS520	SMA	2000	Tape and reel



8.Disclaimer

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