















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	SS52 THRU SS520
Overseas Part Number	SS52 THRU SS520
▶ Equivalent Part Number	SS52 THRU SS520





Surface Mount Schottky Barrier Rectifier Reverse Voltage - 20 to 200 V Forward Current - 5.0A

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

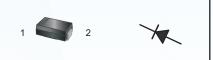
· Case: SMA

• Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 60mg / 0.0021oz

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View

Marking Code: SS52~SS520 Simplified outline SMA and symbol

Absolute Maximum Ratings and Electrical characteristics

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 $^{\circ}$ C

Parameter	Symbols	SS52	SS54	SS56	SS58	SS510	SS512	SS515	SS520	Units
Maximum Repetitive 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)}	5.0							А	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	150							А	
Max Instantaneous Forward Voltage at 5 A	V _F	0.55		0.70 0.85						V
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Reverse Voltage $T_a = 100^{\circ}$ C	I _R	1.0 50						mA		
Typical Junction Capacitance (1)	C _j	500		300						pF
Typical Thermal Resistance (2)	R _{θJA}	60						°C/W		
Operating Junction Temperature Range	Tj	-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.



Fig.1 Forward Current Derating Curve

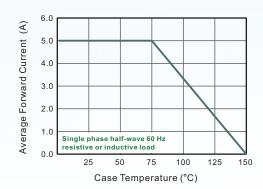


Fig.2 Typical Reverse Characteristics

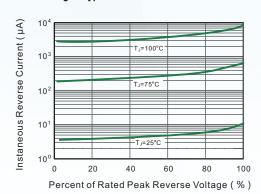


Fig.3 Typical Forward Characteristic

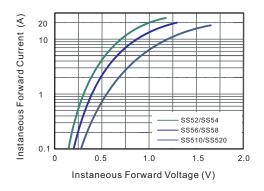


Fig.4 Typical Junction Capacitance

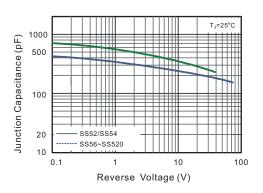


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

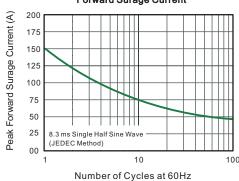
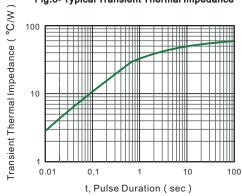


Fig.6- Typical Transient Thermal Impedance

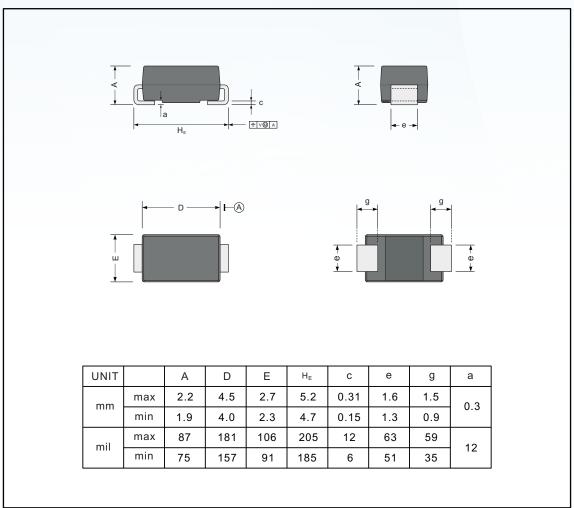




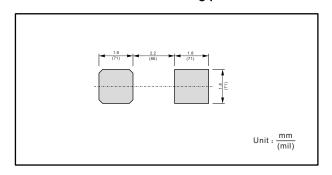
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



Marking

Type number	Marking code			
SS52	SS52			
SS54	SS54			
SS56	SS56			
SS58	SS58			
SS510	SS510			
SS512	SS512			
SS515	SS515			
SS520	SS520			



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