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

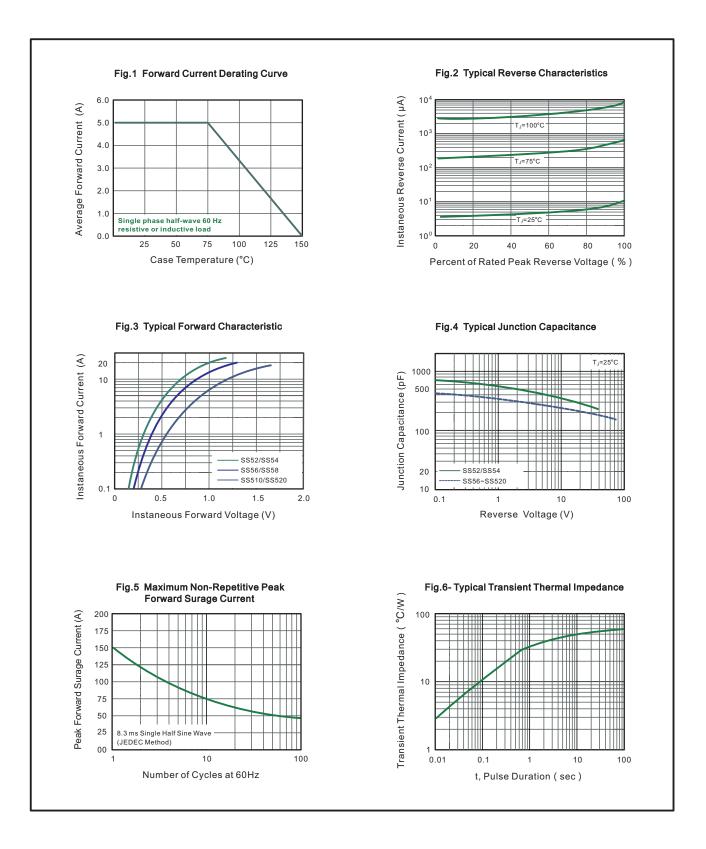
Absolute Maximum Ratings and Electrical characteristics

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)	$R_{\theta JA}$	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

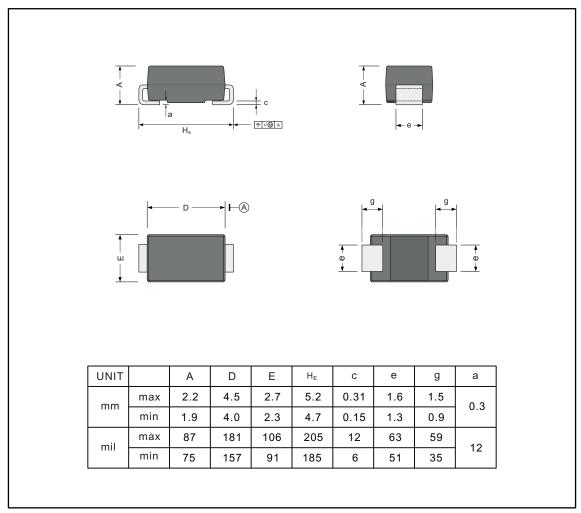
⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



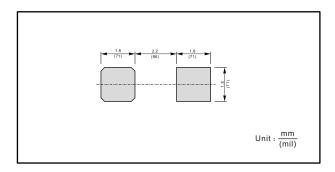
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads





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				