SS52 THUR SS520



SS52 THUR SS520 Schottky Barrier Rectifiers

General description

5.0Amp Surface Mounted Schottky Barrier Rectifiers

FEATURES

- · Flammability Classification 94V-O
- · 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

SMA/DO214AC

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Top View

Marking Code: SS52~SS520 Simplified outline SMA and symbol

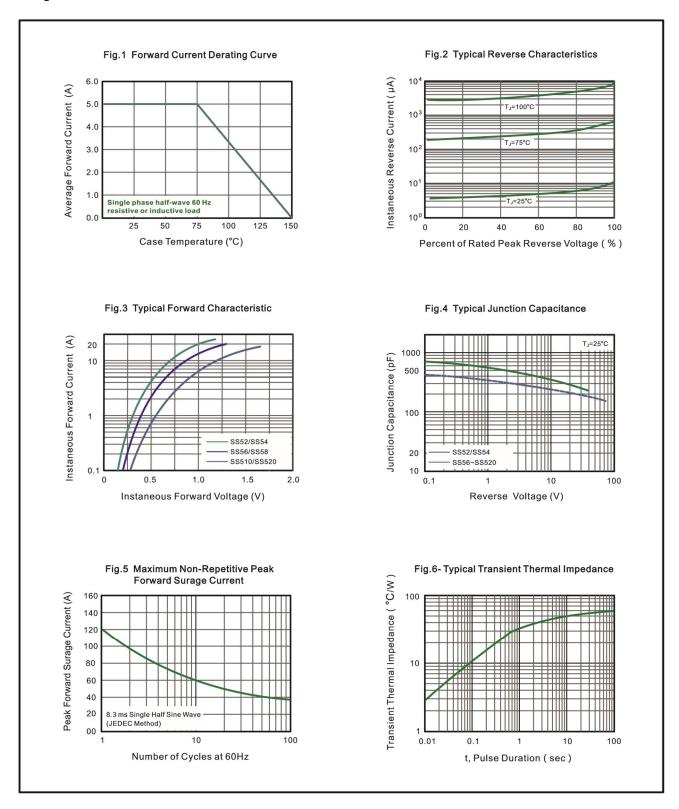
Maximum Ratings And Electrical Characteristics

Parameter	Symbols	SS52	SS54	SS56	SS58	SS510	SS512	SS515	SS520	Units
Maximum Repetitive Peak Reverse Voltage	VRRM	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	VRMS	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	IF(AV)	5.0							А	
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	120							А	
Max Instantaneous Forward Voltage at 5 A	V _F	V _F 0.55		0.70 0.85					V	
Maximum DC Reverse Current $T_a = 25$ °C at Rated DC Reverse Voltage $T_a = 100$ °C	I _R	1.0 50							mA	
Typical Junction Capacitance (1)	Cj	500		300						pF
Typical Thermal Resistance (2)) Rθ _{JA}		60							°C/W
Operating Junction Temperature Range T _j		-55 ~ +150							°C	
Storage Temperature Range		-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.



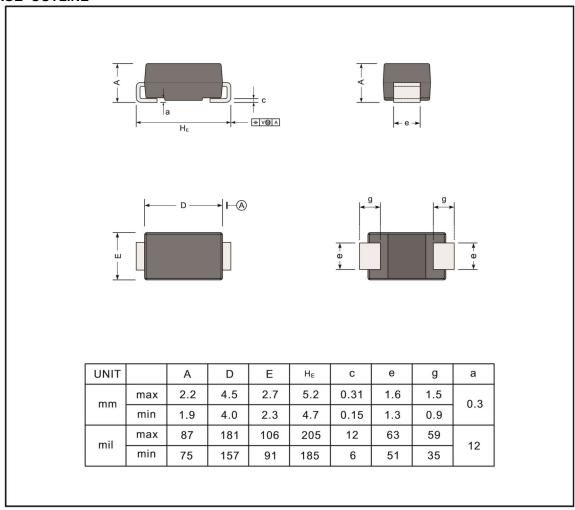
Rating And Characteristic Curves



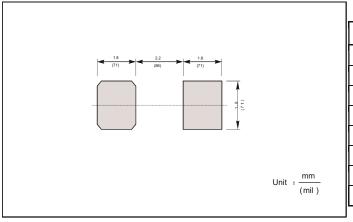
SS52 THUR SS520



PACKAGE OUTLINE



The recommended mounting pad size



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



Important Notice and Disclaimer

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.