### **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

### SMA/DO214AC

#### PINNING

PIN	DESCRIPTION				
1	Cathode				
2	Anode				



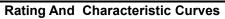
Top View Marking Code: SS52~SS520 Simplified outline SMA and symbol

#### Parameter Symbols SS52 SS54 SS56 SS58 SS510 SS512 SS515 SS520 Units V Maximum Repetitive Peak Reverse Voltage VRRM 20 40 60 80 100 120 150 200 VRMS V Maximum RMS voltage 14 28 42 56 70 84 105 140 Maximum DC Blocking Voltage 20 40 60 80 100 120 150 200 V $V_{\text{DC}}$ Maximum Average Forward Rectified IF(AV) 5.0 A Current Peak Forward Surge Current,8.3ms IFSM Single Half Sine-wave Superimposed 120 А on Rated Load (JEDEC method) Max Instantaneous Forward Voltage at 5 A VF 0.55 0.70 0.85 V Maximum DC Reverse Current Ta = 1.0 25°C at Rated DC Reverse Voltage Ta mΑ $I_R$ 50 =100°C Typical Junction Capacitance (1) pF $C_j$ 500 300 $R\theta_{JA}$ 60 °C/W Typical Thermal Resistance (2) **Operating Junction Temperature Range** -55 ~ +150 °C Tj -55 ~ +150 Storage Temperature Range °C Tstg (1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

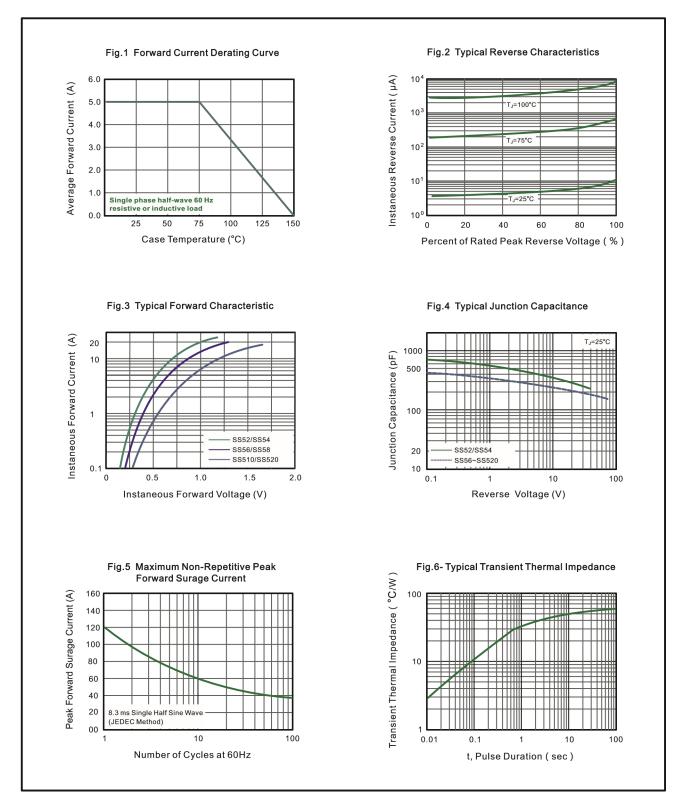
(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.

#### **Maximum Ratings And Electrical Characteristics**

DOGSH RE



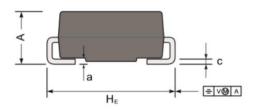
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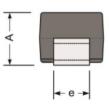


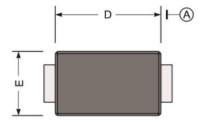
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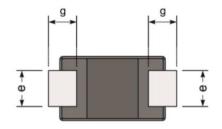


#### SMA PACKAGE OUTLINE



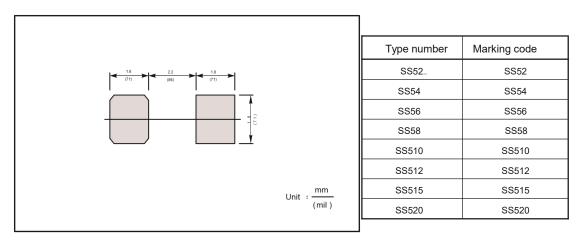






UNIT		Α	D	E	ΗE	С	е	g	а
mm	max	2.5	4.5	2.8	5.3	0.31	1.7	1.5	0.3
	min	1.9	3.9	2.3	4.7	0.15	1.3	0.76	
mil	max	98	181	110	208	12	67	59	12
	min	75	153	91	185	6	51	30	

#### The recommended mounting pad size





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