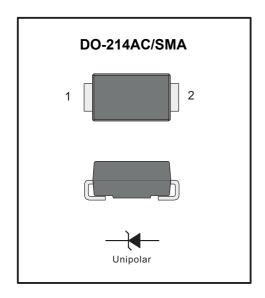
Reverse Voltage - 20 to 200 Volts Forward Current - 5.0 Ampere

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

PINNING

PIN	DESCRIPTION							
1	Cathode							
2	Anode							



Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- Metal silicon junction, majority carrier conduction
- ◆ Low power loss,high efficiency
- Built-in strain relief,ideal for automated placement
- ♦ High forward surge current capability
- High temperature soldering guaranteed:
 250 °C/10 seconds at terminals

Mechanical Data

Case: JEDEC DO-214AC/SMA molded plastic body
 Terminals: Solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end Mounting

♦ Position: Any

◆ Weight: 0.002 ounce, 0.07 grams

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter		SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS5150	SS5200	UNITS
Maximum repetitive peak reverse voltage		20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage		14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage		20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)		5.0									Α
Peak forward surge current											
8.3ms single half sine-wave		125									Α
superimposed onrated load (JEDEC Method)											
Maximum instantaneous forward voltage at 5.0A	VF	0.55				0.70	0.85			0.95	V
Maximum DC reverse current Ta=25°C		0.5 0.2									
at rated DCblocking voltage T _A =125℃	l _R	20 10						2.0		mA	
Typical junction capacitance (NOTE 1)		200									pF
Typical thermal resistance (NOTE 2)		50.0									°C/W
Operating junction temperature range		-50 to +125 -50 to +150									$^{\circ}\mathbb{C}$
Storage temperature range		-50 to +150								$^{\circ}\mathbb{C}$	

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas



Fig.1 Forward Current Derating Curve

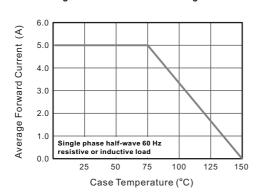


Fig.2 Typical Reverse Characteristics

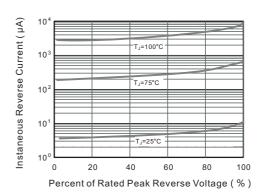


Fig.3 Typical Forward Characteristic

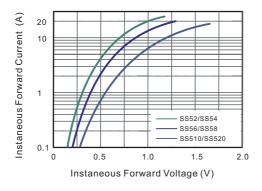


Fig.4 Typical Junction Capacitance

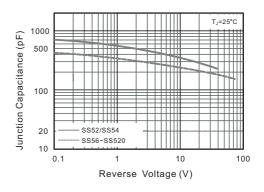


Fig.5 Maximum Non-Repetitive Peak Forward Surage Current

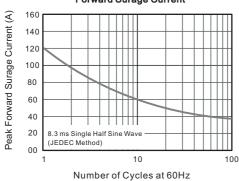
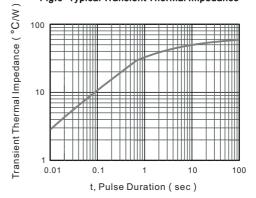


Fig.6- Typical Transient Thermal Impedance

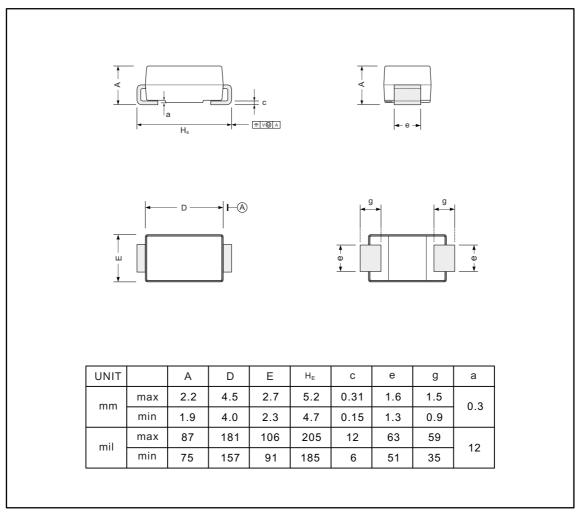


SS52 THRU SS5200 Reverse Voltage - 20 to 200 Volts Forward Current - 5.0 Ampere

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size

