SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

SS52 THRU SS520

REVERSE VOLTAGE: 20 to 200 VOLTS FORWARD CURRENT: 5.0 AMPERE

FEATURES

· Plastic package has Underwriters Laboratory

Flammability Classification 94V-0

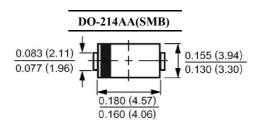
- · For surface mounted applications
- · High current capacity
- · Built-in strain relief
- · Low profile package
- · Metal to silicon rectifier. majority carrier conduction
- · High surge capacity
- · Low power loss, high efficiency
- · For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- \cdot High temperature soldering : 260°C /10 seconds at terminals

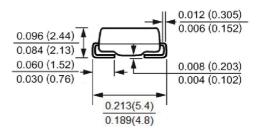
MECHANICAL DATA

Case: Molded plastic,DO-214AA(SMB) Terminals: Pure tin plated, lead free Polarity: Indicated by cathode band

Packaging: 12mm tape per EIA STD RS-481

Weight: 0.093gram





Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

	Symbols	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	SS515	SS520	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	150	200	Volts
Maximum RMS Voltage	Vrms	14	21	28	35	42	56	63	70	105	140	Volts
Maximum DC Blocking Voltage	VDC	20	30	40	50	60	80	90	100	150	200	Volts
Maximum Average Forward Rectified Current	I(AV)	5.0										Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	IFSM	120										
Maximum Forward Voltage at 5.0A (Note 1)	VF	0.55		5	0.75		0.85		0.95		Volts	
Maximum Reverse Current at Ta=25°C at Rated DC Blocking Voltage T a=125°C	Ir	0.5 20										mAmp
Typical Thermal Resistance (Note 2)	Reja Rejl	75 17										°C/ W
Operating Junction Temperature Range	Тл	-55 to +150										$^{\circ}$
Storage Temperature Range	Tstg	-55 to +150										$^{\circ}$

NOTES: 1- Pulse test: 300µs pulse width, 1% duty cycle

2- P.C.B. mounted with 0.4 x 0.4" (10.0 x 10.0mm) Copper Pad Areas

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RATINGS AND CHARACTERISTIC CURVES

