

## SS52 THRU SS520

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER Reverse Voltage - 20 to 200 Volts Forward Current - 5.0 Amperes

## FEATURES

- Metal-Semiconductor junction with gard ring
- Epitaxial construction
- Low forward voltage drop

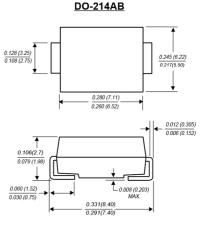
**MECHANICAL DATA** 

Polarity:Color band denotes cathode

●Case: Molded Plastic

•Weight: 0.22grams

- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low vlotage, high frequency inverters, free wheeling, and polarity protection applications



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 current derate by 20%.

CHARACTERISTICS	SYMBOL	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS515	SS520	UNIT
Maximum Recurrent Peak Reverse Voltage	Vrrm	20	30	40	50	60	80	100	150	200	V
Maximum RMS Voltage	Vrms	14	21	28	35	42	56	70	105	140	V
Maximum DC Blocking Voltage	Vdc	20	30	40	50	60	80	100	150	200	V
Maximum Average Forward Rectified Current 0.375" (9.5mm) Lead Lengths	I(AV)	5.0									A
Peak Forward Surage Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	IFSM	100									A
Maximum Forward Voltage at 5.0A DC	VF	0.55			0	0.7 0.85		0.95		V	
Maximum DC Reverse Current @TJ=25°C   at Rated DC Bolcking Voltage @TJ=100°C	lr	0.2 1.0 20 50						mA			
Typical Junction Capacitance (Note1)	CJ	500			350						pF
Typical Thermal Resistance (Note2)	Reja	15			10						°C/W
Operating Temperature Range	TJ	-55 to +150							°C		
Storage Temperature Range	Тѕтс	-55 to +150							°C		

NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

2. Thermal resistance junction to ambient,

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## RATINGS AND CHARACTERISTIC CURVES SS52 THRU SS520

200

150

100

50

0

1 2

100

10

1.0

0.1

0.1

0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0

INSTANTANEOUS FORWARD CURRENT,

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PULSE WIDTH 8.3ms

SINGLE HALF-SINE-WAVE (JEDEC METHOD)

SS55-SS56

SS58-SS510

5

10 20

NUMBER OF CYCLES AT 60Hz

SS52 -SS54

INSTANTANEOUS FORWARD VOLTAGE, VOLTS

PEAK FORWARD SURGE CURRENT,

(AMPERES)

FIG. 1 - FORWARD CURRENT DERATING CURVE

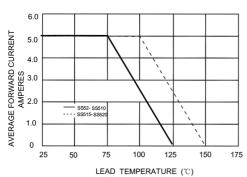
FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

100

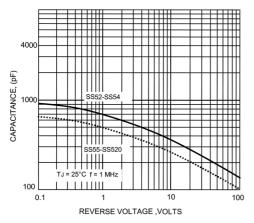
50

SS515 - SS520

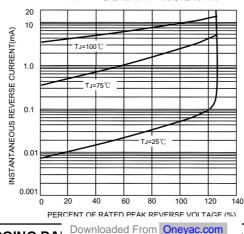
TJ = 25°C













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单击下面可查看定价,库存,交付和生命周期等信息

>>RCD(达标电子)