

# **SS52 THRU SS520**

#### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 200 Volts FORWARD CURRENT - 5.0 Amperes

**DO-214AC** 

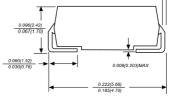
### **FEATURES**

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

## **MECHANICAL DATA**

- ●Case: Molded Plastic
- Polarity: Color band denotes cathode
- ●Weight :0.058 grams

# 0.087 (2.21) 0.051 (1.29) 0.050 (2.18) 0.080(2.18) 0.157(3.99)



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%.

SYMBOL	SS52	SS53	SS54	SS55	SS56	SS58	SS510	SS515	SS520	UNIT
VRRM	20	30	40	50	60	80	100	150	200	V
VRMS	14	21	28	35	42	56	70	105	140	V
VDC	20	30	40	50	60	80	100	150	200	V
l(AV)	5.0									А
lғsм	100									А
VF	0.55			0	0.85		85 0.		.95	V
lR	0.2 1.0 20 50						mA			
Cı	500			350						pF
RθJA	15			10						°C/W
TJ	-55 to +150								$^{\circ}$	
Тѕтс	-55 to +150									$^{\circ}$
	VRRM VRMS VDC I(AV) IFSM VF IR CJ R0JA TJ	VRRM 20 VRMS 14 VDC 20 I(AV) IFSM VF IR CJ R@JA TJ	VRRM 20 30 VRMS 14 21 VDC 20 30  I(AV)  IFSM  VF 0.55 IR 20 CJ 500  Reja 15 TJ	VRRM 20 30 40  VRMS 14 21 28  VDC 20 30 40  I(AV)  IFSM  VF 0.55  IR 0.2 20  CJ 500  R@JA 15  TJ	VRRM 20 30 40 50  VRMS 14 21 28 35  VDC 20 30 40 50  I(AV)  IFSM  VF 0.55 0  IR 20  CJ 500  RBJA 15  TJ	VRRM         20         30         40         50         60           VRMS         14         21         28         35         42           VDC         20         30         40         50         60           I(AV)         5.0           VF         0.55         0.7           IR         0.2         0.2           20         0.2         0.2           RBJA         15         15           TJ         -55 to -	VRRM 20 30 40 50 60 80  VRMS 14 21 28 35 42 56  VDC 20 30 40 50 60 80  I(AV) 5.0  IFSM 100  VF 0.55 0.7 0.  IR 0.2 20  CJ 5000  R0JA 15  TJ -55 to +150	VRRM         20         30         40         50         60         80         100           VRMS         14         21         28         35         42         56         70           VDC         20         30         40         50         60         80         100           I(AV)         5.0           IFSM         100           VF         0.55         0.7         0.85           IR         0.2         1.0         50           CJ         500         350         350           RBJA         15         10         -55 to +150	VRRM         20         30         40         50         60         80         100         150           VRMS         14         21         28         35         42         56         70         105           VDC         20         30         40         50         60         80         100         150           I(AV)         5.0           IFSM         100           VF         0.55         0.7         0.85         0.0           IR         0.2         1.0         50         50           CJ         500         350         350         RBJA         15         10         -55 to +150	VRRM         20         30         40         50         60         80         100         150         200           VRMS         14         21         28         35         42         56         70         105         140           VDC         20         30         40         50         60         80         100         150         200           I(AV)         5.0           IFSM         100           VF         0.55         0.7         0.85         0.95           IR         0.2         1.0         50         50           CJ         500         350         350           RBJA         15         10         10           TJ         -55 to +150

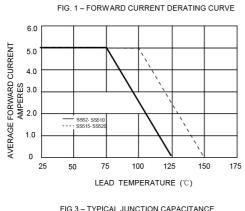
NOTES: 1.Measured at 1.0 MHz and applied reverse voltage of 4.0V DC

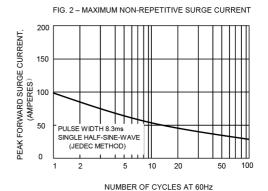
2. Thermal resistance junction to ambient,

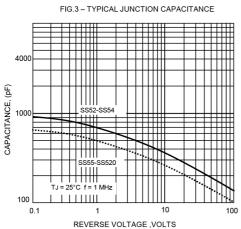
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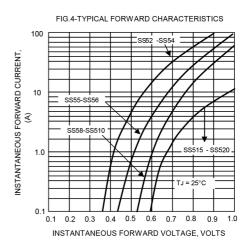


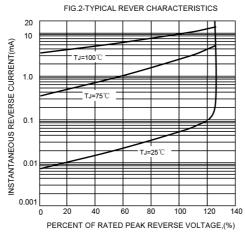
## RATING AND CHARACTERTIC CURVES SS52 thru SS520











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