

SURFACE MOUNT**REVERSE VOLTAGE - 20 to 200 Volts****SCHOTTKY BARRIER RECTIFIERS FORWARD CURRENT - 5.0 Amperes****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
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MECHANICAL DATA

Case Molded Plastic

Polarity:Color band denotes cathode

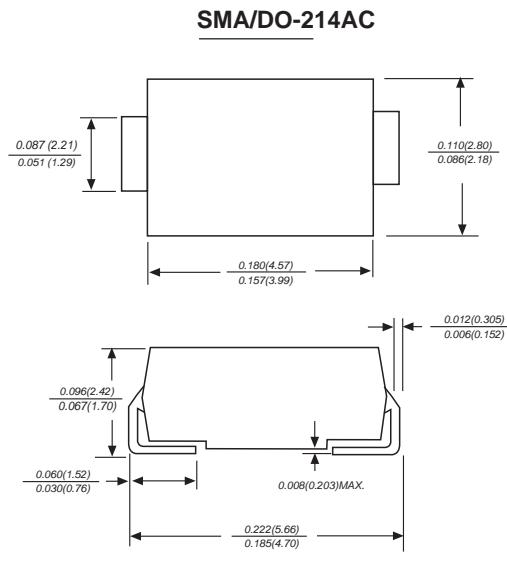
Weight :0.058 grams

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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	V _{RRM}	20	30	40	50	60	80	100	150	200	V						
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	V						
Maximum DC Blocking Voltage	V _{DC}	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 Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load(JEDEC Method)	I _{FSM}	100									A						
Maximum Forward Voltage at 5.0A DC	V _F	0.55		0.7		0.85		0.95		V							
Maximum DC Reverse Current @T _J =25°C at Rated DC Bolcking Voltage @T _J =100°C	I _R	0.2		20		1.0		50		mA							
Typical Junction Capacitance (Note1)	C _J	500		350		350		350		pF							
Typical Thermal Resistance (Note2)	R _{JA}	15		10		10		10		°C/W							
Operating Temperature Range	T _J	-55 to +150									°C						
Storage Temperature Range	T _{STG}	-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,

FIG. 1 – FORWARD CURRENT DERATING CURVE

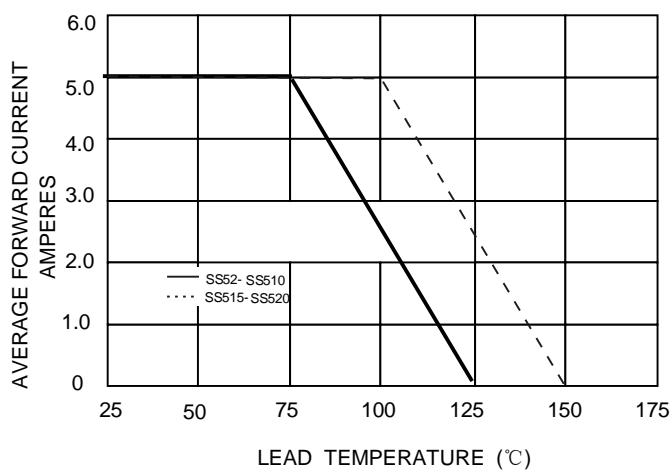


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

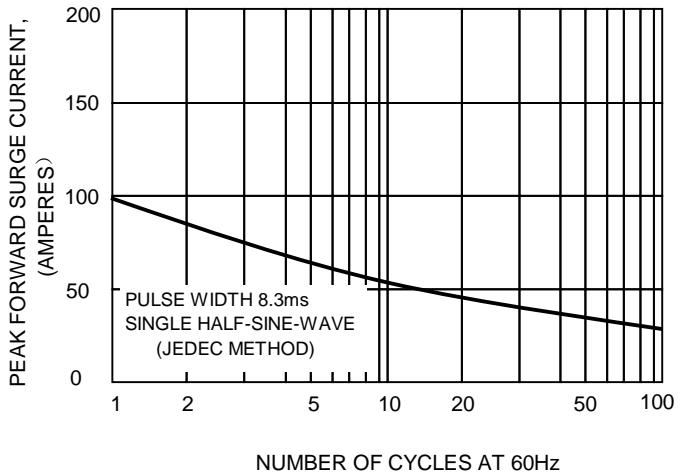


FIG.3 – TYPICAL JUNCTION CAPACITANCE

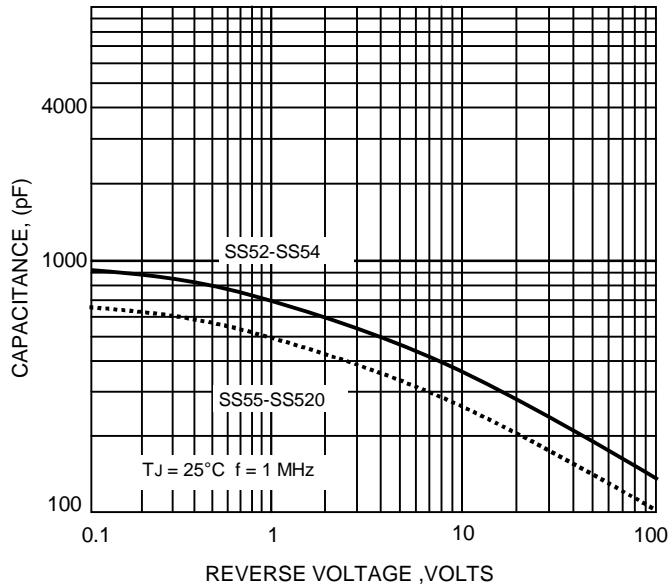


FIG.4-TYPICAL FORWARD CHARACTERISTICS

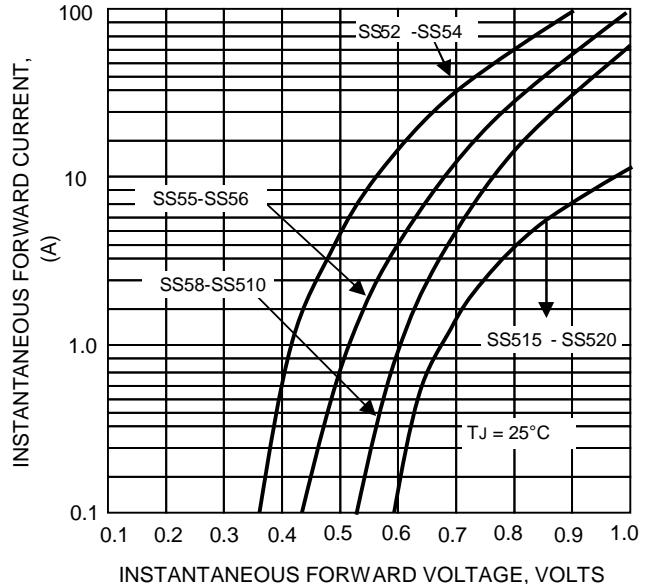


FIG.2-TYPICAL REVER CHARACTERISTICS

