



Product data sheet

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Semiconductor Compiance



SMA

FEATURES

- * Ideal for surface mount applications
- * Easy pick and place
- * Built-in strain relief
- * Low forward voltage drop

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Metallurgically bonded construction
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.063 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER		SS315	SS320	UNITS
Maximum Recurrent Peak Reverse Voltage		150	200	V
Maximum RMS Voltage		105	140	V
Maximum DC Blocking Voltage		150	200	V
Maximum Average Forward Rectified	Current			
at T∟=100 [°] C		3.0		A
Peak Forward Surge Current, 8.3 ms s	single half sine-wave			
superimposed on rated load (JEDEC method)		80		A
Maximum Instantaneous Forward Voltage at 3.0A		0.92		V
Maximum DC Reverse Current	Ta=25°C	(0.02	mA
at Rated DC Blocking Voltage	Ta=100°C		2	mA
Typical Junction Capacitance (Note1)		250		PF
Typical Thermal Resistance R0JL (Note 2)		10		°C/W
Operating Temperature Range TJ		-65 —+150		°C
Storage Temperature Range Tsrg		-65+150		°C

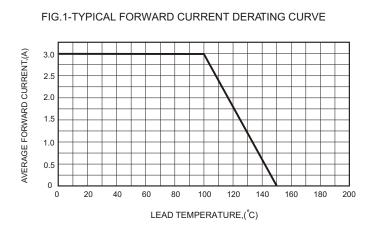
NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Lead Vertical PC Board Mounting 0.5"(12.7mm) Lead Length.



RATING AND CHARACTERISTIC CURVES (SS315 THRU SS320)





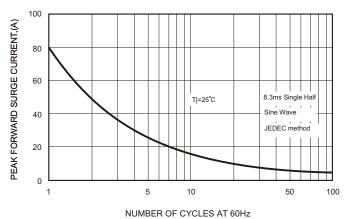
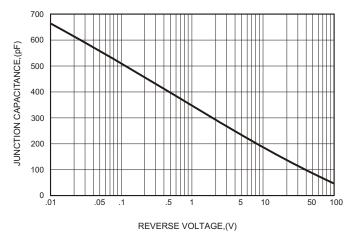


FIG.4-TYPICAL JUNCTION CAPACITANCE



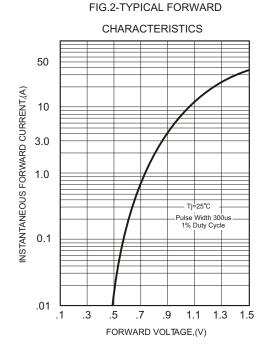
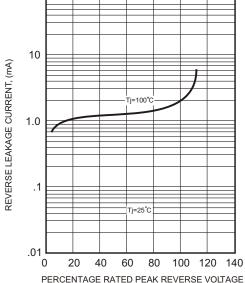


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

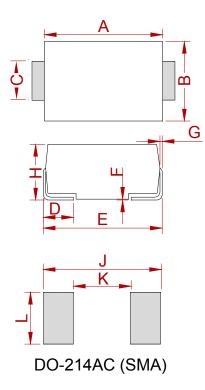
100







PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Max.	Min.	Max.		
А	4.25	4.65	0.167	0.183		
В	2.50	2.90	0.098	0.114		
С	1.35	1.65	0.053	0.065		
D	0.76	1.52	0.030	0.060		
Е	4.93	5.28	0.194	0.208		
F	0.051	0.203	0.002	0.008		
G	0.15	0.31	0.006	0.012		
Н	1.98	2.41	0.078	0.095		
J	6.50		0.256			
K		2.30		0.090		
L	1.70		0.067			

REEL SPECIFICATION

P/N	PKG	QTY
SS315 THRU SS320	SMA	2000



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