

VOLTAGE RANGE **20 to 200 Volts**
CURRENT **5.0 Ampere**

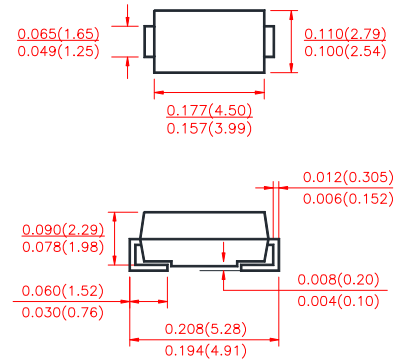
FEATURES

- Low profile surface mount package
- Built in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing ,and polarity protection applications
- Guardring for over voltage protection

MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead :Solder plated, solderable per MIL-STD-750 method 2026
- Polarity: Color band denotes cathode end

DO-214AC(SMA)



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%.

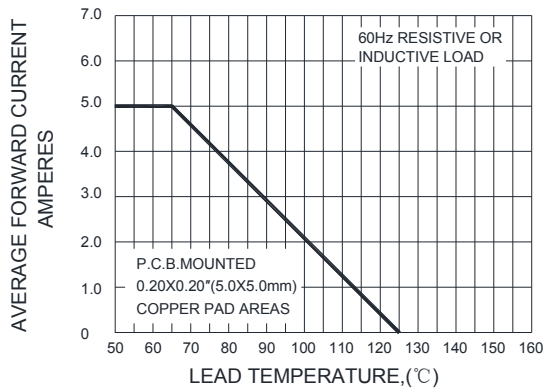
		SYMBOL	SS 52A	SS 53A	SS 54A	SS 55A	SS 56A	SS 58A	SS 59A	SS 510A	SS 515A	SS 520A	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	90	100	150	200	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	56	63	70	105	140	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	90	100	150	200	Volts
Maximum Average Forward Rectified Current at T _L see figure 1 T _L =65°C		I _(AV)	5.0										Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	120										Amps
Maximum Instantaneous Forward Voltage @ 2.0A(Note1)		V _F	0.50	0.55	0.70	0.85			0.90			Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T _A = 25°C	I _R	0.5					10					mA
	T _A = 100°C		20										
Typical Thermal Resistance (Note 2)		R _{θJA}	55										°C/W
		R _{θJL}	12										
Operating Junction Temperature		T _J	-55 to +125										°C
Storage Temperature Range		T _{STG}	-55 to +150										°C

Notes:

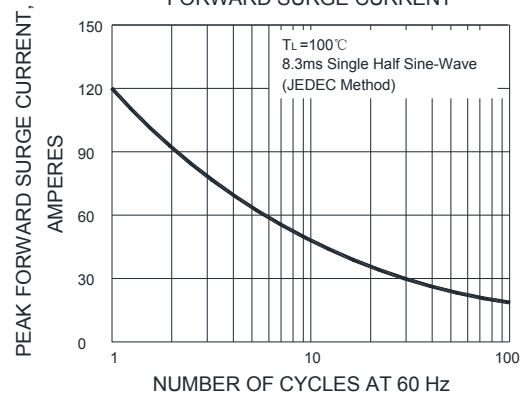
1. Pulse test:300 μ s pulse width,1% duty cycle
2. PCB mounted with 0.2"×0.2"(5.0mm×5.0mm)copper pads

SYMBOLS	SS 52A	SS 53A	SS 54A	SS 55A	SS 56A	SS 58A	SS 59A	SS 510A	SS 515A	SS 520A
MARKING	SS52	SS53	SS54	SS55	SS56	SS58	SS59	SS510	SS515	SS520

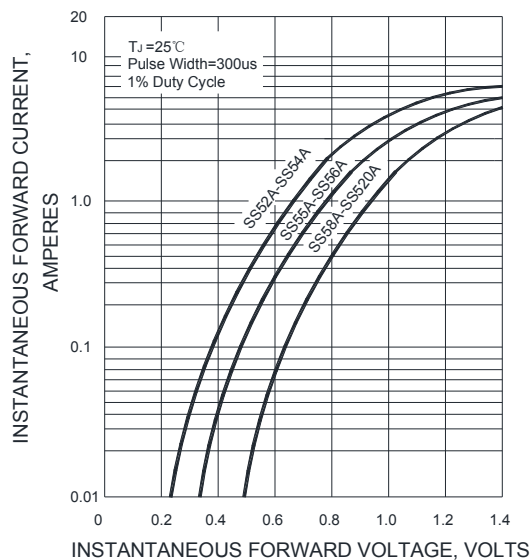
F1G.1-FORWARD CURRENT
DERATING CURVE



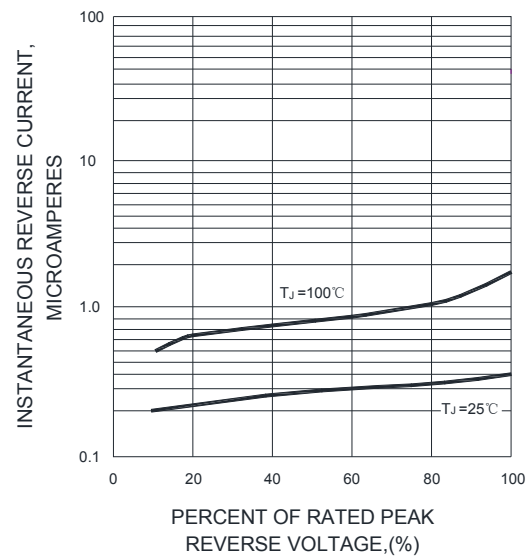
F1G.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

