



WEET Technology Company Limited

Schottky Barrier Rectifiers

SS52A THRU SS510A

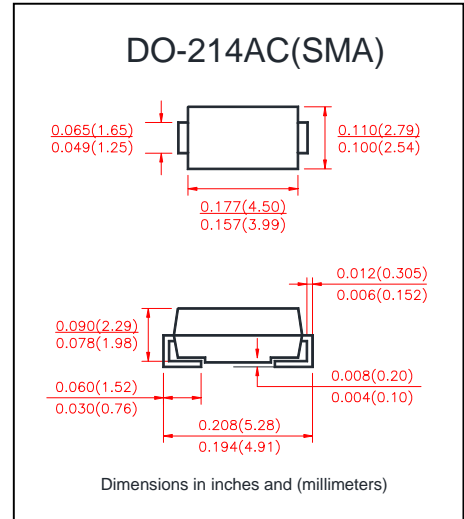
VOLTAGE RANGE 20 to 100 Volts
CURRENT 5.0 Ampere

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
- Guarding 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



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%.

	SYMBOLS	SS52A	SS53A	SS54A	SS55A	SS56A	SS58A	SS59A	SS510A	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	80	90	100	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	56	63	70	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	80	90	100	Volts
Maximum Average Forward Rectified Current	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 @ 5.0A(Note1)	V _F	0.55			0.70		0.85			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C	0.5								mA
	T _A = 100°C	20.0			10.0					
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 0.55"×0.55"(14mm×14mm) copper pads



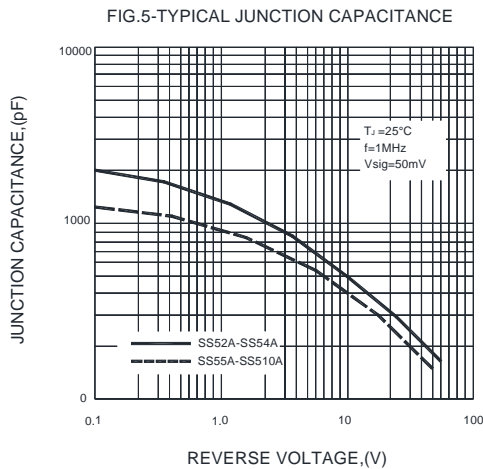
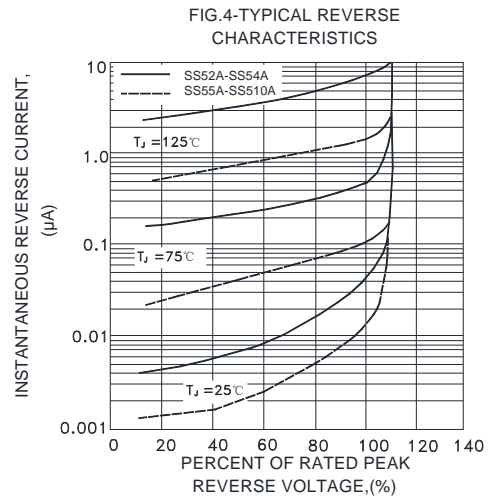
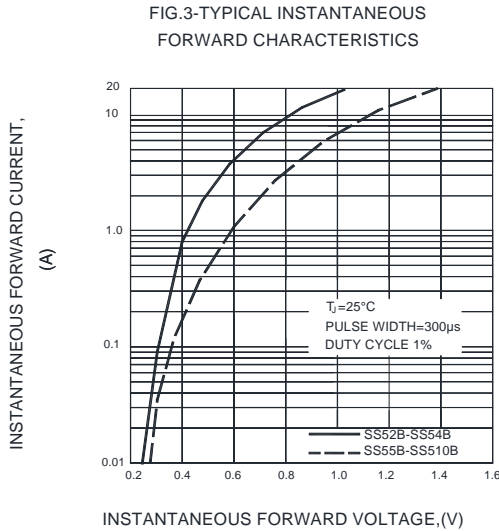
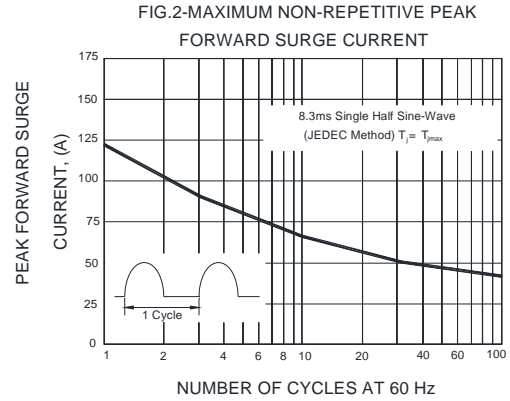
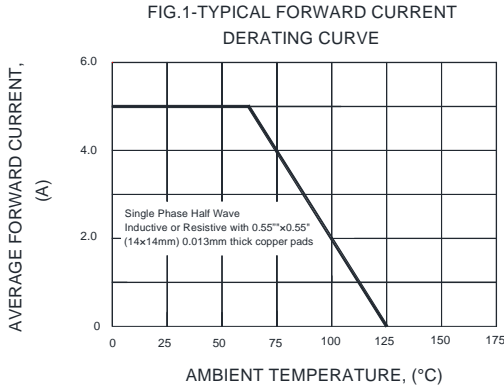
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RATING AND CHARACTERISTIC CURVES SS52B THRU SS510B



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.