



WEET Technology Company Limited

Schottky Barrier Rectifiers

SSL52 THRU SSL56

VOLTAGE RANGE 20 to 60 Volts
CURRENT 5.0 Ampere

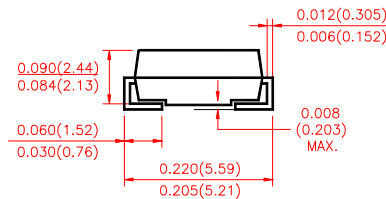
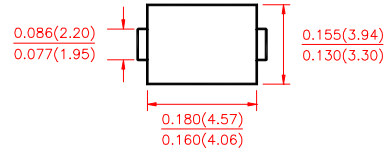
FEATURES

- 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
- Weight: 0.003 ounce, 0.093 gram

DO-214AA(SMB)



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 derate current by 20%.

TYPE NUMBER	SYMBOLS	SSL52	SSL53	SSL54	SSL55	SSL56	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	Volts
Maximum Average Forward Rectified Current at T_{L} see figure 1 $T_A = 25^\circ C$	$I_{(AV)}$	5					Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150					Amps
Maximum Instantaneous Forward Voltage @ 5.0A(Note1)	V_F	0.45			0.55		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	I_R	$T_A = 25^\circ C$ 0.5					mA
		$T_A = 100^\circ C$ 20			10		
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55					°C/W
	$R_{\theta JL}$	12					
Operating Junction Temperature	T_J	(-55 to +150)			(-55 to +150)		°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"(5.0cm×5.0cm)copper pads



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

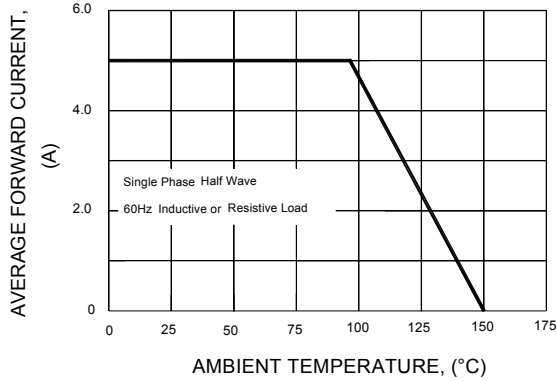


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

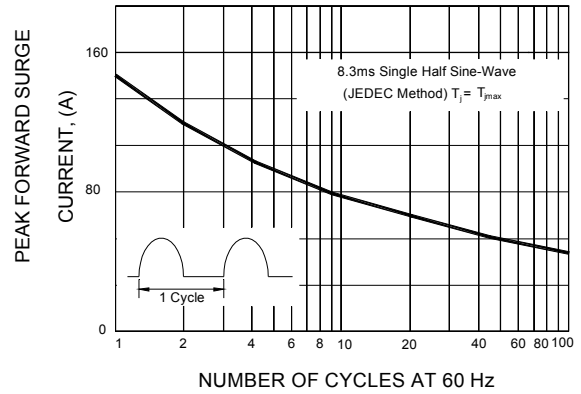


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

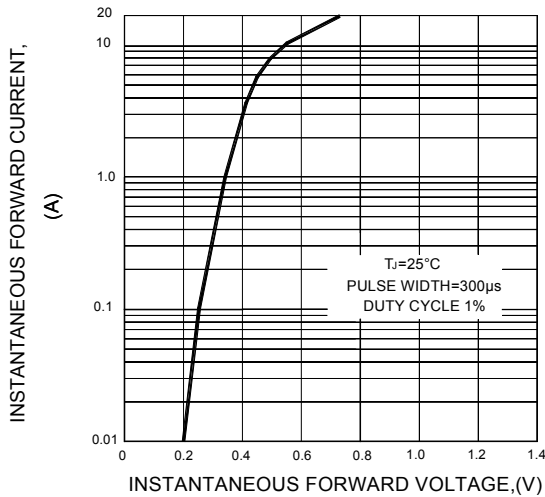


FIG.4-TYPICAL REVERSE CHARACTERISTICS

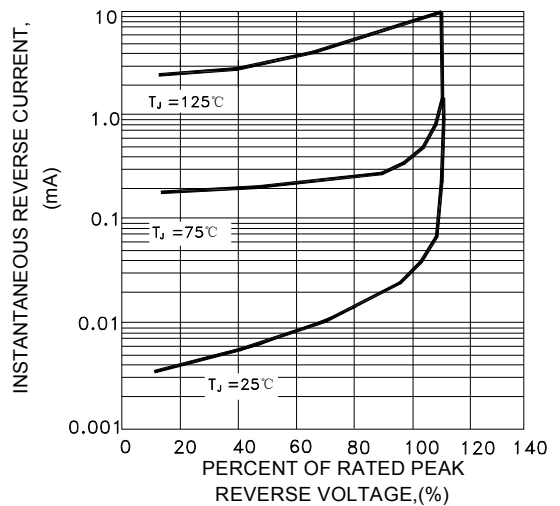
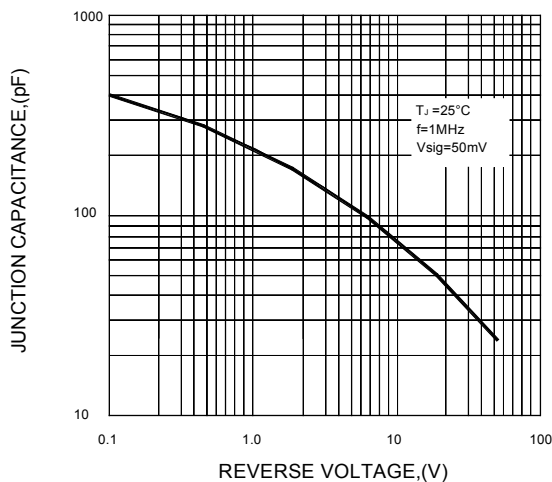


FIG.5-TYPICAL JUNCTION CAPACITANCE



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