



# WEET Technology Company Limited

## Schottky Barrier Rectifiers

SS34L THRU SS36L

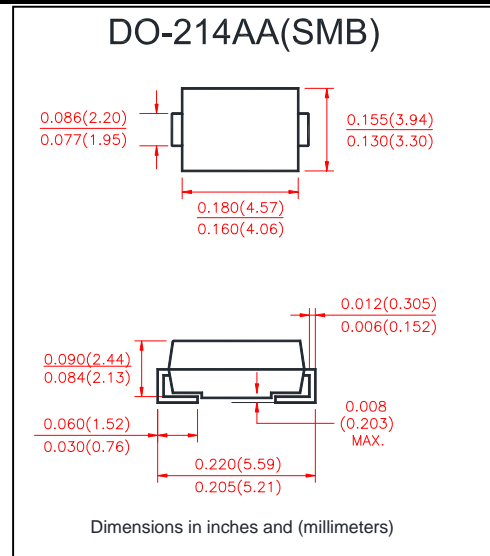
VOLTAGE RANGE 40 to 60Volts  
CURRENT 3.0 Ampere

### FEATURES

- Low profile surface mount package
- Built-in strain relief
- High switching speed, low  $V_F$
- 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	SS34L	SS36L	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	40	60	Volts
Maximum RMS Voltage	$V_{RMS}$	28	42	Volts
Maximum DC Blocking Voltage	$V_{DC}$	40	60	Volts
Maximum Average Forward Rectified Current at $T_L=75^\circ\text{C}$	$I_{(AV)}$	3		Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	70		Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note 1)	$V_F$	0.45	0.65	Volts
Maximum DC Reverse Current at rated DC Blocking voltage per element	$I_R$	0.5		mA
		20		
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	75		°C/W
	$R_{\theta JL}$	17		
Operating Junction Temperature	$T_J$	(-55 to +125)		°C
Storage Temperature Range	$T_{STG}$	(-55 to +150)		°C

#### Notes:

1. Pulse test: 300µs pulse width, 1% duty cycle
2. P.C.B. with 0.27×0.27" (7.0 × 7.0mm) copper pad areas.



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

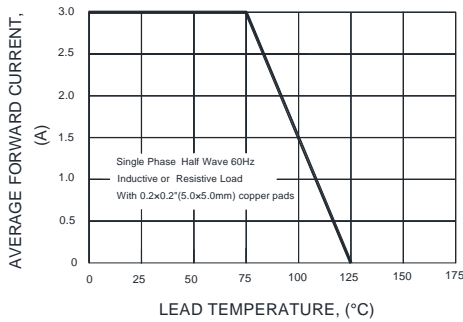


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

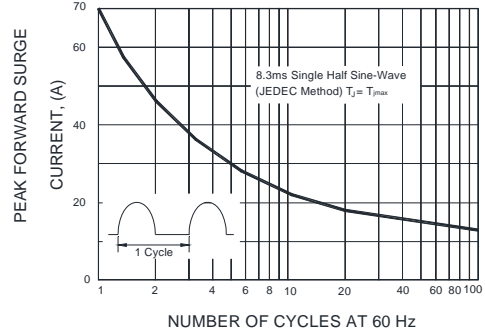


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

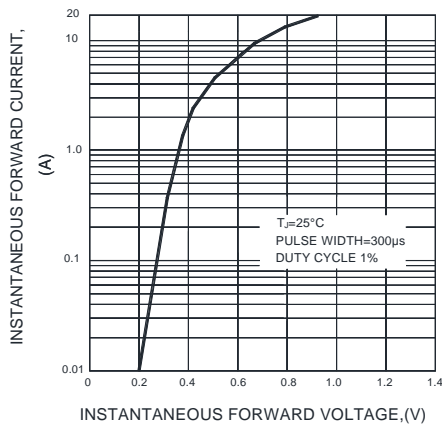


FIG.4-TYPICAL REVERSE CHARACTERISTICS

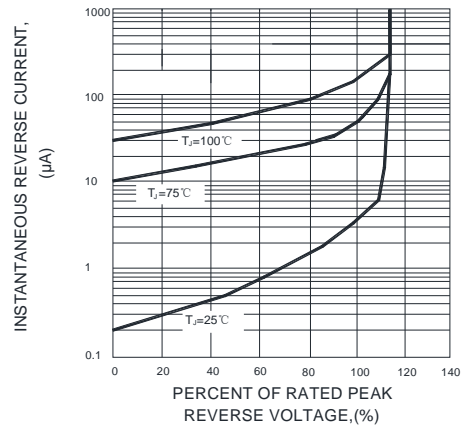
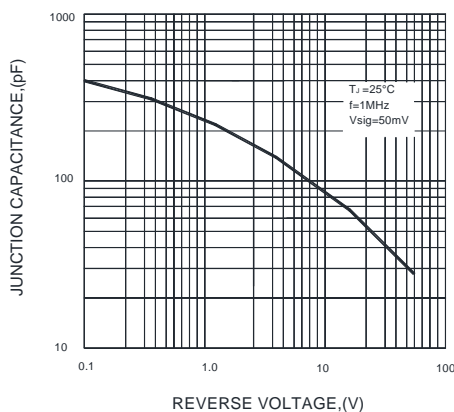


FIG.5-TYPICAL JUNCTION CAPACITANCE



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