



# WEE Technology Company Limited

## Schottky Barrier Rectifiers

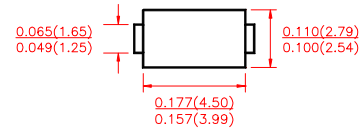
SSL215 THRU SSL220

VOLTAGE RANGE      150 to 200 Volts  
 CURRENT                2.0 Ampere

### FEATURES

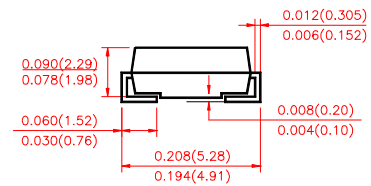
- Low profile surface mount package
- Built in strain relief
- High switching speed
- Low voltage drop, high efficiency
- For use in low voltage high frequency inverters, Free willing ,and polarity protection applications
- Guardring for over voltage protection

DO-214AC(SMA)



### 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: 0.002 ounce, 0.064 gram



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%.

	SYMBOLS	SSL215	SSL220	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	150	200	Volts
Maximum RMS Voltage	$V_{RMS}$	105	140	Volts
Maximum DC Blocking Voltage	$V_{DC}$	150	200	Volts
Maximum Average Forward Rectified Current at $T_L$ see figure 1 $T_L=105^\circ\text{C}$	$I_{(AV)}$	2		Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50		Amps
Maximum Instantaneous Forward Voltage @ 3.0A(Note1)	$V_F$	0.80		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$I_R$	$T_A = 25^\circ\text{C}$	0.5	mA
		$T_A = 100^\circ\text{C}$	10	
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55		$^\circ\text{C}/\text{W}$
	$R_{\theta JL}$	12		
Operating Junction Temperature	$T_J$	(-55 to +150)		$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	(-55 to +150)		$^\circ\text{C}$

#### Notes:

1. Pulse test: 300  $\mu$  s pulse width, 1% duty cycle
2. PCB mounted with 0.2"  $\times$  0.2" (5.0cm  $\times$  5.0cm) copper pads



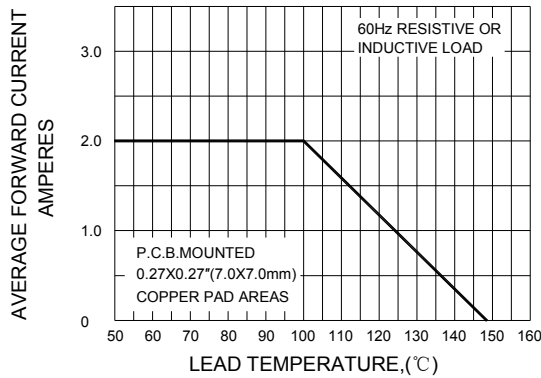
# WEET Technology Company Limited

## Schottky Barrier Rectifiers

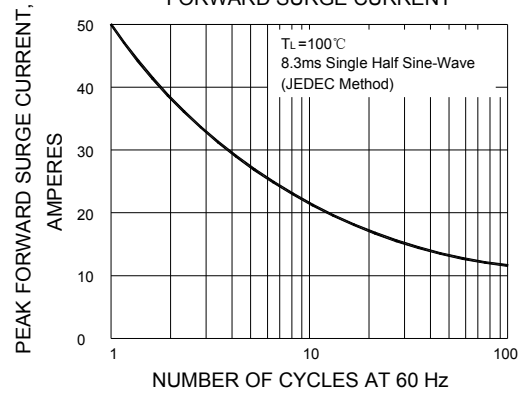
SSL215 THRU SSL220

VOLTAGE RANGE      150 to 200 Volts  
 CURRENT              2.0 Ampere

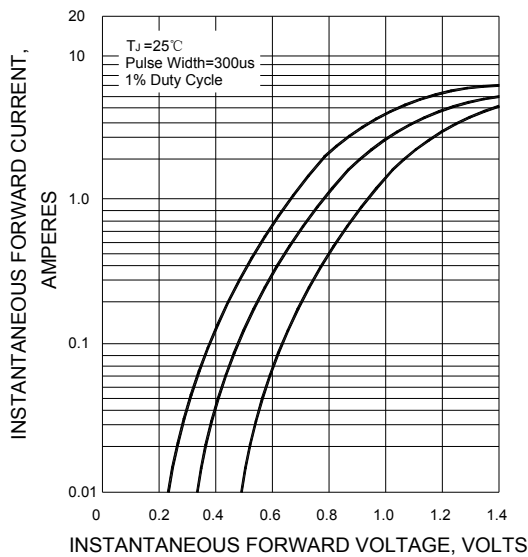
F1G.1-FORWARD CURRENT DERATING CURVE



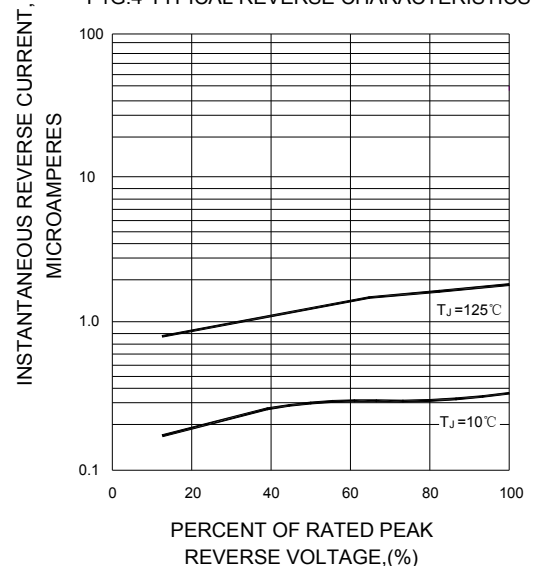
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



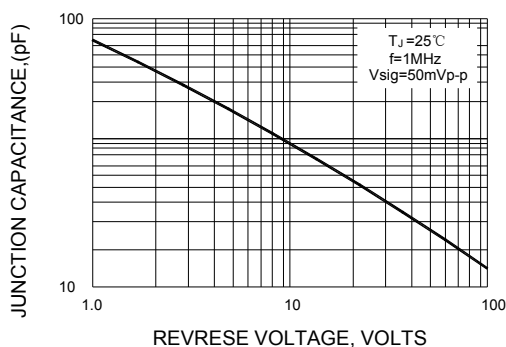
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



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