



# WEE Technology Company Limited

## Schottky Barrier Rectifiers

SR1045L THRU SR10200L

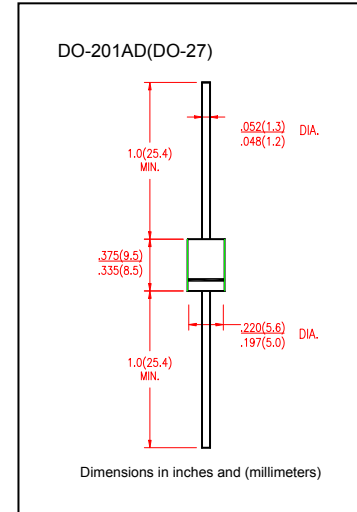
VOLTAGE RANGE      45 to 200 Volts  
 CURRENT                10.0 Ampere

### FEATURES

- Fast switching speed
- Low forward voltage
- Low power high efficiency
- High surge capability
- High temperature soldering guaranteed  
 250°C/10 seconds, 0.373"(9.5mm) lead length

### MECHANICAL DATA

- Case: Transfer molded plastic
- Epoxy: UL94V-0 rate flame retardant
- Lead: solderable per MIL-STD-202E method 208C
- Polarity: Color band denoted cathode end
- Mounting position: Any
- Weight: 0.045 ounce, 1.27 gram



### 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%

Catalog Number	SYMBOLS	SR1045 L	SR1060 L	SR10100 L	SR10150 L	SR10200 L	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	45	60	100	150	200	Volts
Maximum RMS Voltage	$V_{RMS}$	32	42	70	105	140	Volts
Maximum DC Blocking Voltage	$V_{DC}$	45	60	100	150	200	Volts
Maximum Average Forward Rectified Current, 0.375"(9.5mm) Lead length, (Note 1) See Fig. 1	$I_{(AV)}$	10					Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	250					Amps
Maximum Instantaneous Forward Voltage @ 10.0A	$V_F$	0.45	0.55	0.75			Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element (Note 1)	$T_A = 25^\circ C$	0.5			0.05		mA
	$T_A = 100^\circ C$	50			10		
Typical Junction Capacitance (Measured at 1.0Hz and applied reverse voltage of 4.0V)	$C_J$	450			350		pF
Typical Thermal Resistance	$R_{\theta JA}$	15					°C/W
Operating Junction Temperature Range	$T_J$	(-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



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FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

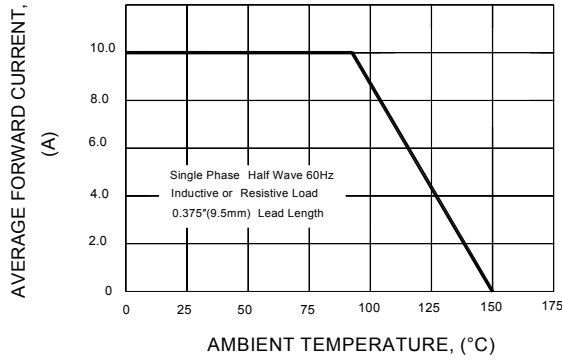


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

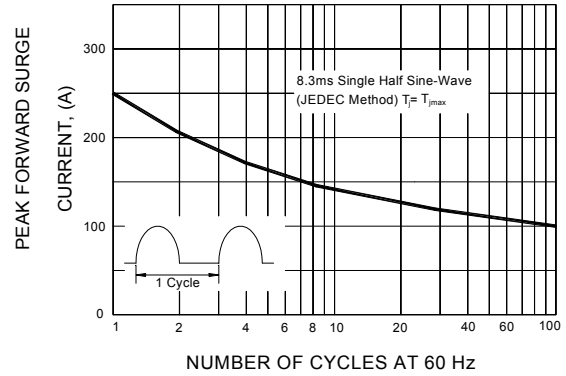


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

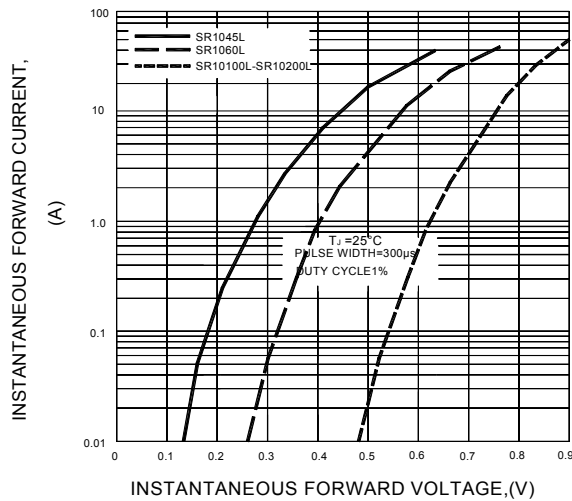


FIG.4-TYPICAL REVERSE CHARACTERISTICS

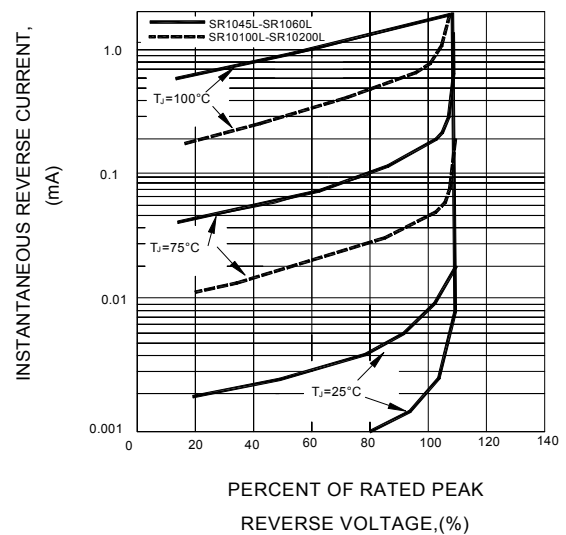
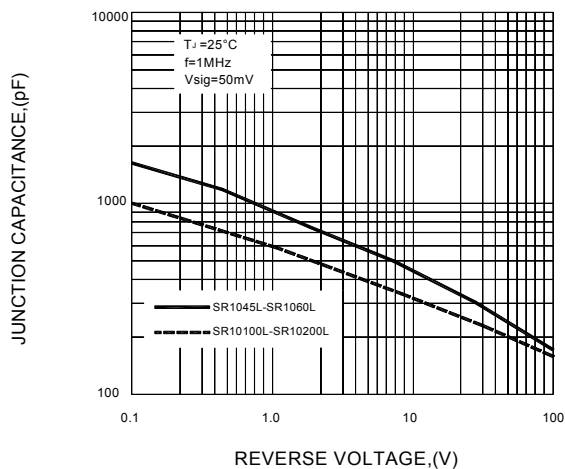


FIG.5-TYPICAL JUNCTION CAPACITANCE



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