



WEET Technology Company Limited

Schottky Barrier Rectifiers

SR5150 THRU SR5200

VOLTAGE RANGE

150 to 200 Volts

CURRENT

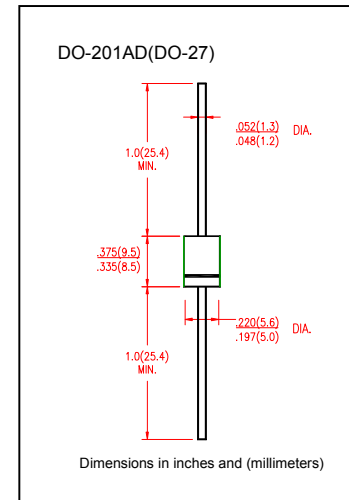
5.0 Ampere

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%

	SYMBOLS	SR5150	SR5200	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 $T_L = 105^\circ C$	$I_{(AV)}$	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 @ 3.0A(Note1)	V_F	0.85		Volts
Maximum DC Reverse Current at rated DC Blocking Voltage per element	$T_A = 25^\circ C$	0.5		mA
	$T_A = 100^\circ C$	10		
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	55		$^\circ C/W$
	$R_{\theta JL}$	12		
Operating Junction Temperature	T_J	150		$^\circ C$
Storage Temperature Range	T_{STG}	(-55 to +150)		$^\circ C$

Notes:

1. Pulse test: 300 μs pulse width, 1% duty cycle



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 CURRENT 5.0 Ampere

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

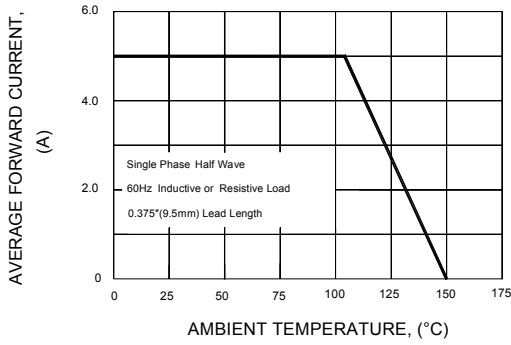


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

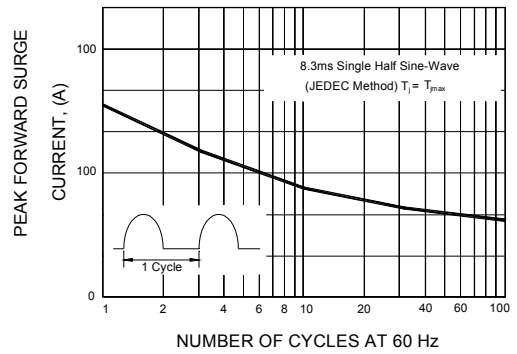


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

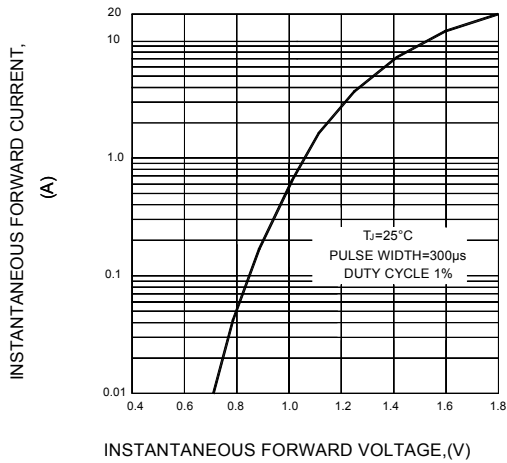


FIG.4-TYPICAL REVERSE CHARACTERISTICS

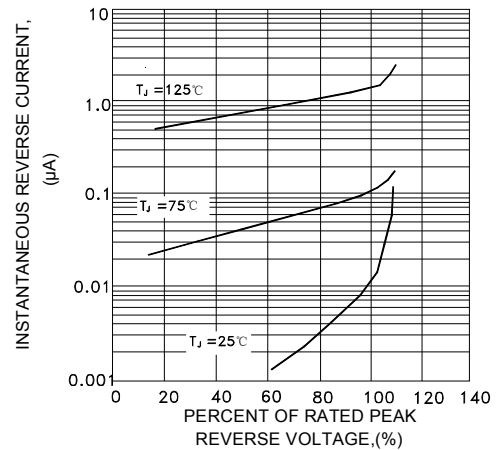
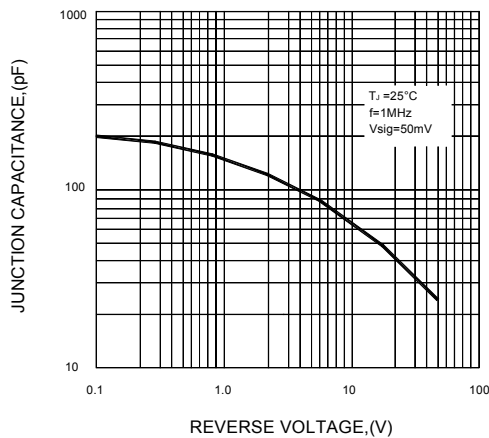


FIG.5-TYPICAL JUNCTION CAPACITANCE



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