

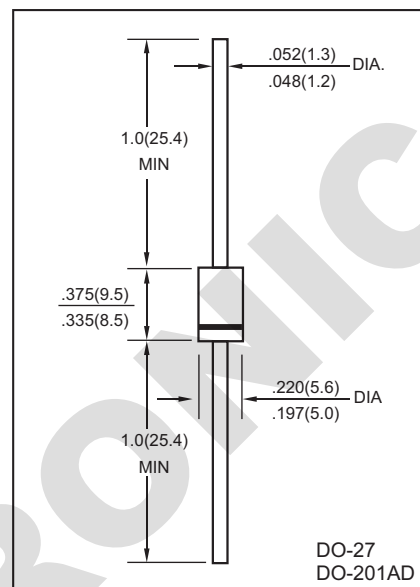
SCHOTTKR BARRIER RECTIFIER

FEATURES

- Plastic package has Underwriters Laboratory Classification 94V-0.
- Metal silicon junction, majority carrier conduction
- Guard ring for overvoltage protection
- Low power loss, high efficiency
- High current capability, Low forward voltage drop
- High surge capability
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- High temperature soldering guaranteed: 250°C/10 seconds at terminals, 0.375" (9.5mm) lead length, 5 lbs. (2,3kg) tension

MECHANICAL DATA

- **Case:** JEDEC DO-15 molded plastic body
- **Terminals:** Plated axial leads, solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode end
- **Mounting position:** Any
- **Weight:** 0.014 ounce, 0.39gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, resistive or inductive load. For capacitive load derate by 20%.

		SYMBOLS	SR320	SR330	SR340	SR350	SR360	SR380	SR3A0	UNITS
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage		V _{RMS}	14	21	28	35	42	57	71	Volts
Maximum DC Blocking Voltage		V _{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current0.375” (9.5mm) lead length at		I _(AV)	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	60.0							Amps
Maximum Instantaneous Forward Voltage at3.0A		V _F	0.55			0.70		0.85		Volts
Maximum DC Reverse Current at rated DC blocking voltage(NOTE1)	T _A =25°C	I _R	3.0							mAmps
	T _A =100°C		20		10					
Typical Junction Capacitance(NOTE2)		C _J	250			160			pF	
Typical Thermal Resistance(NOTE3)		R _{θJA} R _{θJL}	40.0 10.0							°C/W
Operating Temperature Range		T _J	-65 to +125			-65 to +150			°C	
Storage Temperature Range		T _{STG}	-65 to +150							°C

NOTES:

1. Pulse test: 300µs pulse width, 1% duty cycle.
2. Thermal Resistance from Junction to lead vertical P.C.B. Mounted with 0.5" (12.7mm) lead length with 2.5" X 2.5" (63.5 X 63.5mm) copper pads.
3. Measured at 1MHz and reverse voltage of 4.0volts.

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

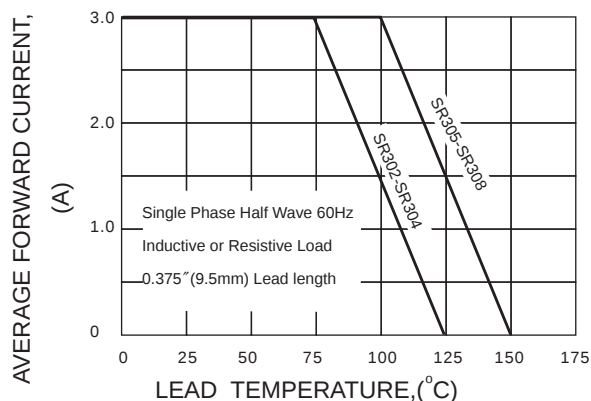


FIG.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT

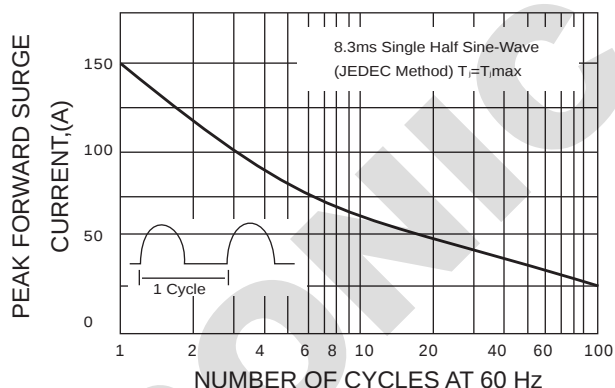


FIG.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

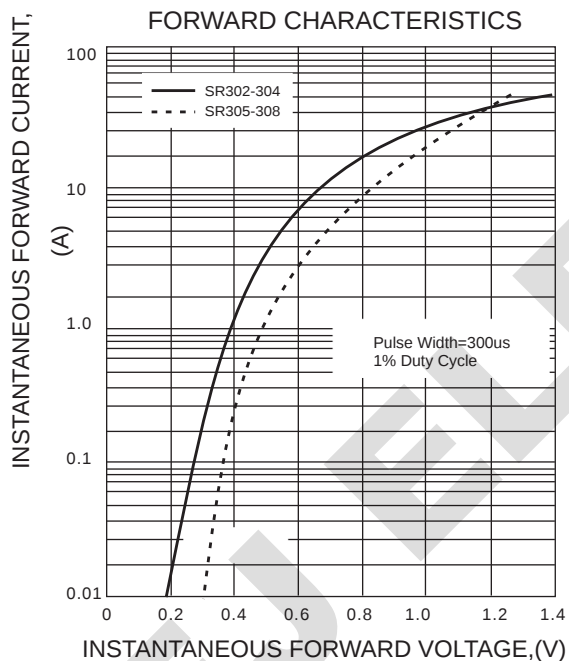


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

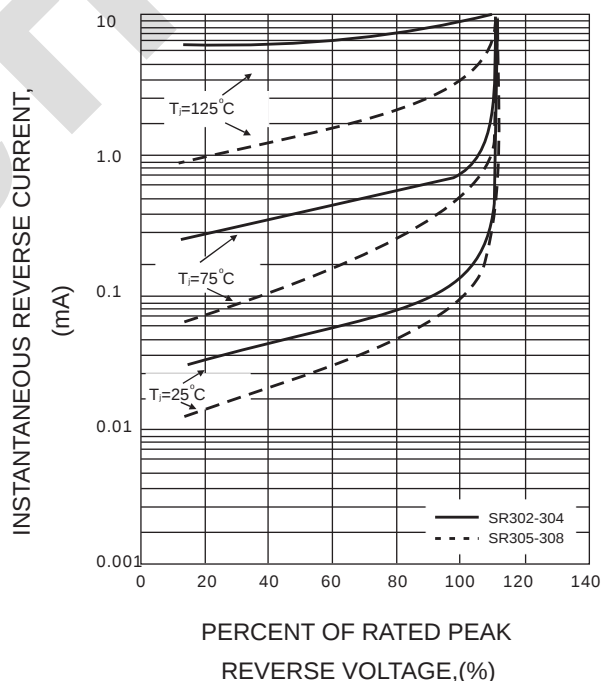


FIG.5-TYPICAL JUNCTION CAPACITANCE

