

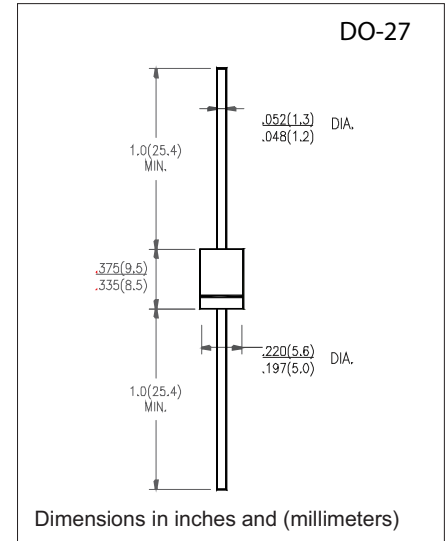
SCHOTTKY BARRIER RECTIFIER

FEATURES

- Fast switching
- Low forward voltage
- Low power loss for 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: 0.042 ounce, 1.19 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%.

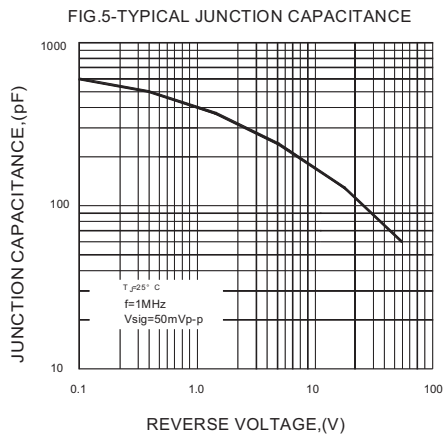
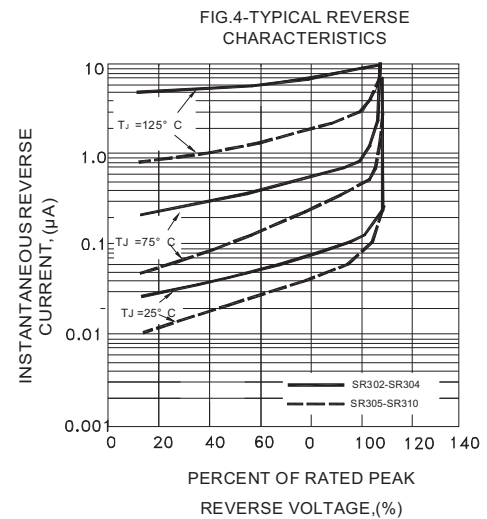
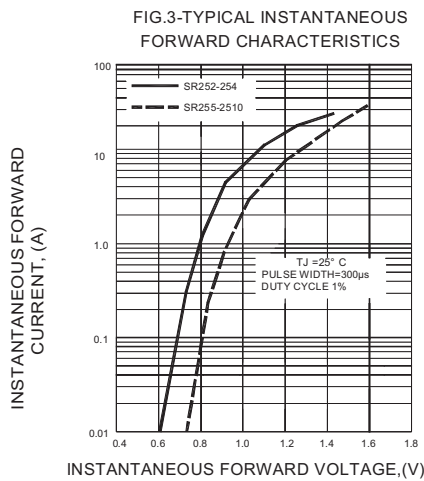
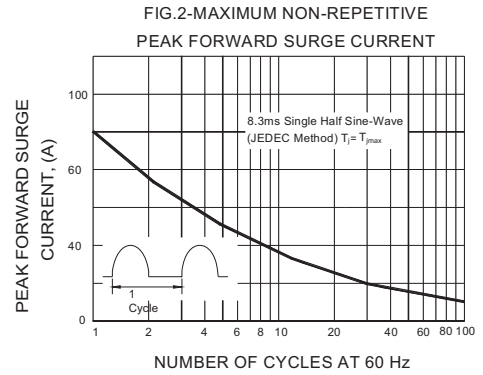
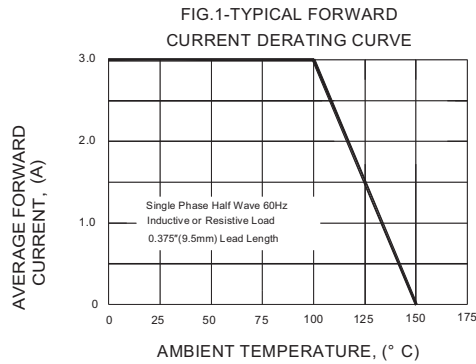
	SYMBOLS	SR302	SR303	SR304	SR305	SR306	SR308	SR310	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	V_{RMS}	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	V_{DC}	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current 0.375" (9.5mm) lead length ,(Note 1) $T_L = 100^\circ C$	$I_{(AV)}$	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80							Amps
Maximum Instantaneous Forward Voltage @ 3.0A	V_F	0.55		0.75		0.85		Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage per element (Note 1)	I_R	$T_A = 25^\circ C$ 0.5							mA
		$T_A = 125^\circ C$ 30							
Typical Junction Capacitance(measured at 1.0Hz and applied reverse voltage of 4.0V)	C_J	250							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	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: 300µs pulse width, 1% duty cycle
2. Thermal resistance from junction to ambient P.C.B. mounted with 0.375"(9.5mm) lead length with 2.5"×2.5"(63.5×63.5cm) copper pads

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RATING AND CHARACTERISTIC CURVES SR302 - SR310



Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.