

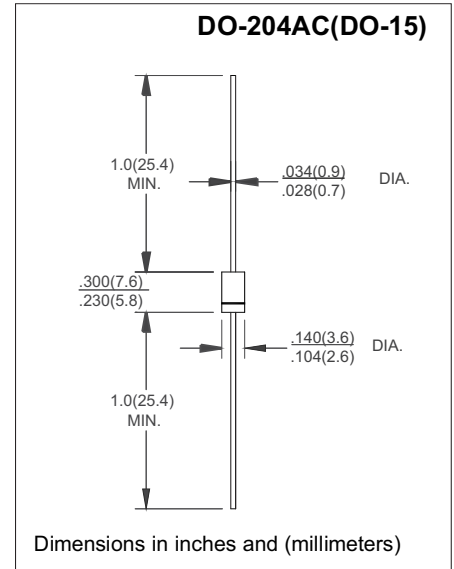
## SCHOTTKY BARRIER RECTIFIER

### FEATURES

- Fast switching
- Low forward voltage
- Low power loss for high efficiency
- High surge capability
- High temperature soldering guaranteed  
250°C/10 seconds, 0.375"(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: 0.014ounce, 0.39 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%.

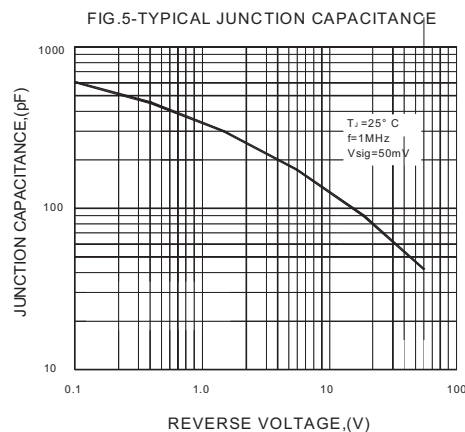
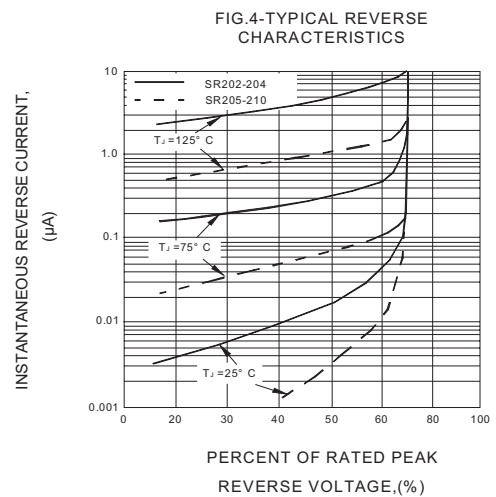
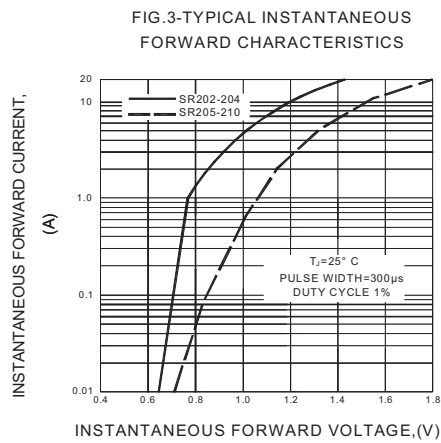
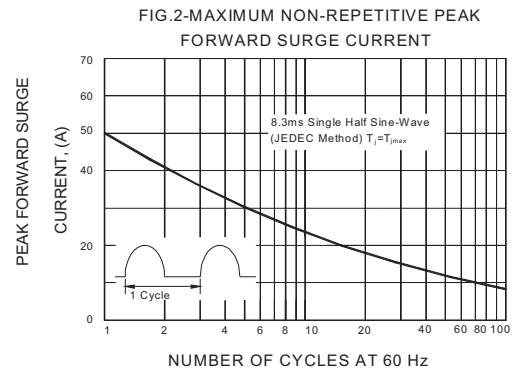
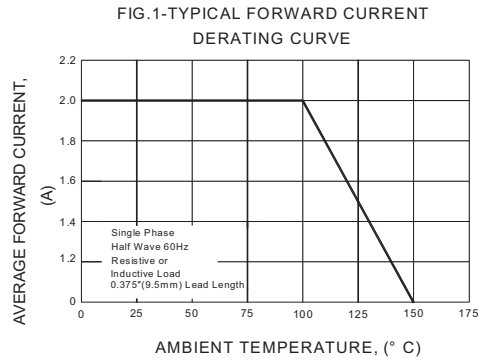
PARAMETER	SYMBOLS	SR202	SR203	SR204	SR205	SR206	SR208	SR210	UNIT
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	30	40	50	60	80	100	Volts
Maximum RMS Voltage	$V_{RMS}$	14	21	28	35	42	56	70	Volts
Maximum DC Blocking Voltage	$V_{DC}$	20	30	40	50	60	80	100	Volts
Maximum Average Forward Rectified Current 0.375"(9.5mm) lead length ,(NOTE 1) $T_L = 100^\circ\text{C}$	$I_{(AV)}$	2.0							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 @2.0A	$V_F$	0.55		0.70		0.85		Volts	
Maximum DC Reverse Current at rated blocking DC voltage per element(Note1)	$T_A = 25^\circ\text{C}$	0.2					0.4		mA
	$T_A = 100^\circ\text{C}$	10							
Typical Junction Capacitance (NOTE 3)	$C_J$	200							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	35							°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 1.5"×1.5" (38×38mm) copper pads
3. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts.

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### RATING AND CHARACTERISTIC CURVES SR202 - SR210



#### Disclaimer

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