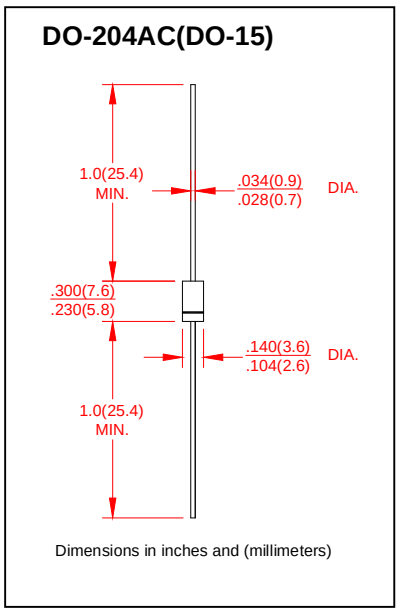
SCHOTTTKY BARRIER RECTIFIER

SR220 THRU SR2100

VOLTAGE RANGE **20 to 100 Volts**
CURRENT **2.0 Ampere**

FEATURES

- Fast switching
- Low forward voltage
- Low power loss for high efficiency
- High surge capability
- High temperature soldering guaranteed
  250℃/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℃ ambient temperature unless otherwise specified
- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	SR220	SR230	SR240	SR250	SR260	SR280	SR2100	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℃	$I_{(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	60							Amps
Maximum Instantaneous Forward Voltage @2.0A	V_F	0.55		0.70		0.85			Volts
Maximum DC Reverse Current at rated DC blocking voltage per element(Note1) T_A = 25℃	I_R	0.5							μA
Maximum DC Reverse Current at rated DC blocking voltage per element(Note1) T_A = 100℃	I_R	10							μA
Typical Junction Capacitance (NOTE 3)	C_J	200							pF
Typical Thermal Resistance (NOTE 2)	$R_{\theta JA}$	20							℃/W
Operating Junction Temperature Range	T_J	(-55 to +150)							℃
Storage Temperature Range	T_{STG}	(-55 to +150)							℃

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 CHRACTERISTIC CURVES SR202 THRU SR210

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

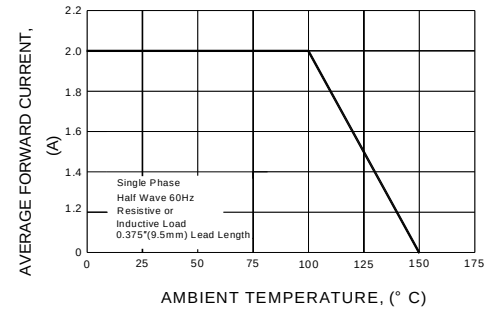

FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

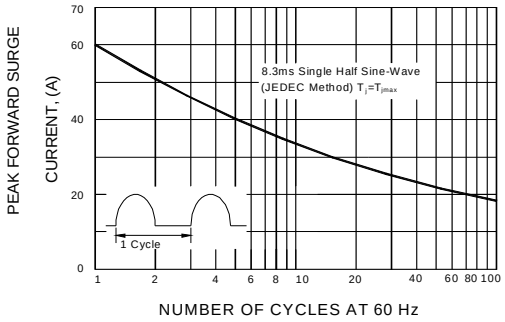

FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

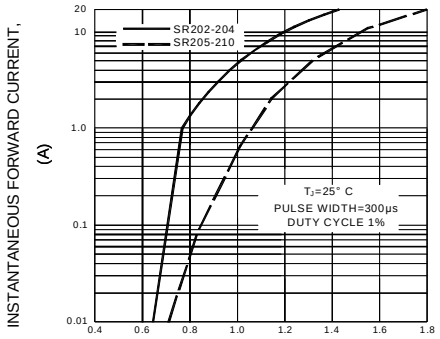

FIG.4-TYPICAL REVERSE CHARACTERISTICS

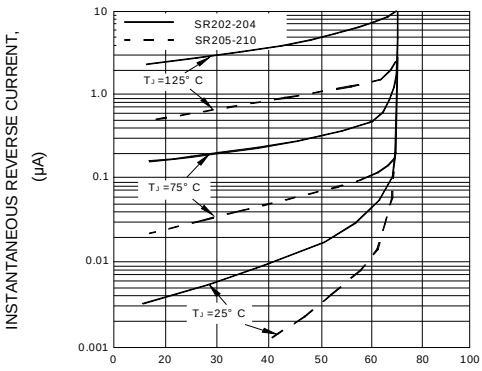

FIG.5-TYPICAL JUNCTION CAPACITANCE