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2A SCHOTTKY BARRIER RECTIFIERS

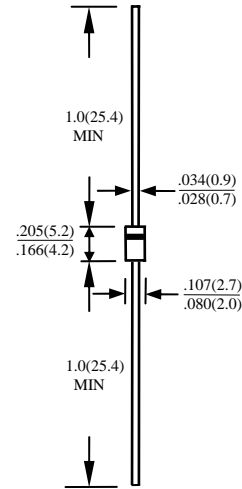
SR202-LFR THRU SR210-LFR

FEATURES

- EXTREMELY LOW VF
- LOW STORED CHARGE, MAJORITY CARRIER CONDUCTION
- LOW POWER LOSS / HIGH EFFICIENCY
- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- ROHS

MECHANICAL DATA

- CASE: TRANSFER MOLDED, DO-41, DIMENSIONS IN INCHES AND (MILLIMETERS)
- LEADS: SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: CATHODE INDICATED BY COLOR BAND
- WEIGHT: 0.34 GRAMS



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

| RATINGS | SYMBOL | SR202 -LFR | SR203 -LFR | SR204 -LFR | SR205 -LFR | SR206 -LFR | SR207 -LFR | SR208 -LFR | SR209 -LFR | SR210 -LFR | UNITS |
|---|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| MAXIMUM RECURRENT PEAK REVERSE VOLTAGE | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | V |
| MAXIMUM RMS VOLTAGE | V_{RMS} | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70 | V |
| MAXIMUM DC BLOCKING VOLTAGE | V_{DC} | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | v |
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT 0.375"(9.5mm) LEAD LENGTH (SEE FIG.1) | I_O | 2.0 | | | | | | | | | A |
| PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD | I_{FSM} | 50 | | | | | | | | | A |
| TYPICAL JUNCTION CAPACITANCE (NOTE1) | C_j | 90 | | | 110 | | | | | | PF |
| TYPICAL THERMAL RESISTANCE (NOTE 2) | $R_{\theta ja}$ | 40 | | | | | | | | | °C/W |
| STORAGE TEMPERATURE RANGE | T_{STG} | - 55 TO + 150 | | | | | | | | | °C |
| OPERATING TEMPERATURE RANGE | T_{OP} | - 55 TO + 150 | | | | | | | | | °C |

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ C$ UNLESS OTHERWISE NOTED)

| CHARACTERISTICS | SYMBOL | SR202 -LFR | SR203 -LFR | SR204 -LFR | SR205 -LFR | SR206 -LFR | SR207 -LFR | SR208 -LFR | SR209 -LFR | SR210 -LFR | UNITS |
|-------------------------------------|--------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| MAXIMUM FORWARD VOLTAGE AT I_O DC | V_F | 0.45 | 0.60 | 0.65 | 0.70 | | 0.85 | | | | V |
| MAXIMUM REVERSE CURRENT AT 25°C | I_R | 2.0 | | | | | | | | | mA |
| MAXIMUM REVERSE CURRENT AT 100°C | I_R | 20.0 | | | | | | | | | mA |

- NOTES: 1. MEASURED AT 1 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. BOTH LEADS ATTACHED TO HEAT SINK 20x20x1t(mm) COPPER PLATE AT LEAD LENGTH 5mm

RATINGS AND CHARACTERISTIC CURVE SR202-LFR THRU SR210-LFR

FIG. 1 - FORWARD CURRENT DERATING CURVE

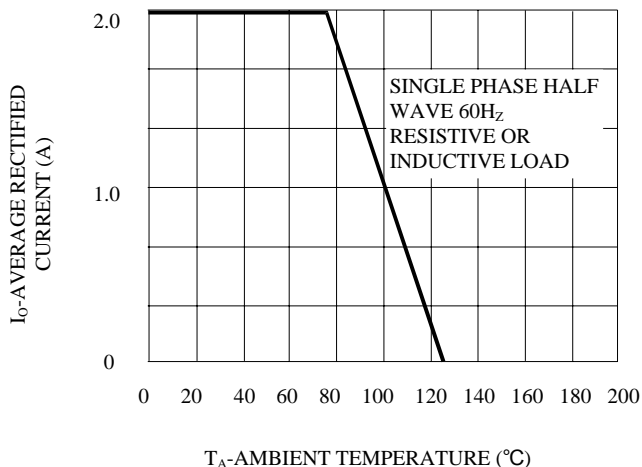


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

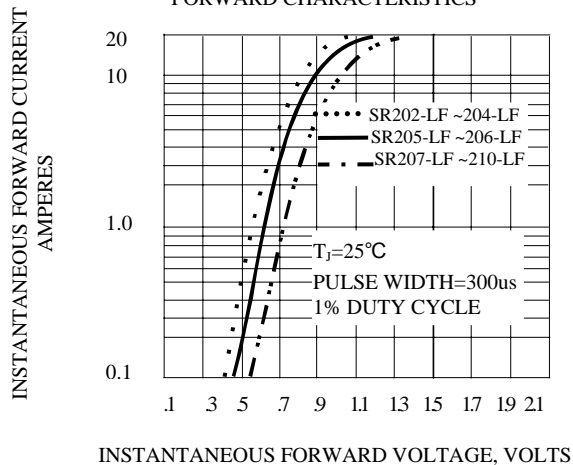


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

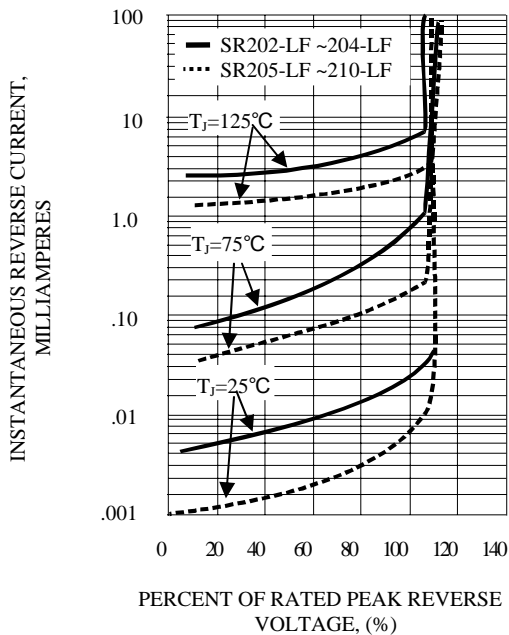


FIG. 4 - MAXIMUM NON-REPETITIVE SURGE CURRENT

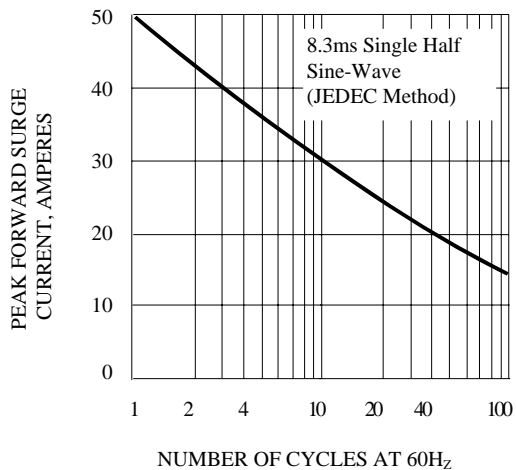


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

