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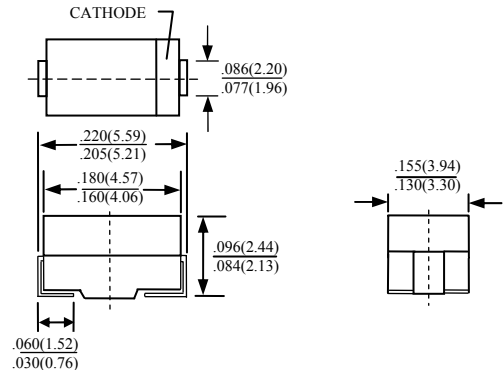
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2A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS22 THRU SS210

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS LABORATORY CLASSIFICATION 94 V-0
- EXTREMELY LOW VF
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING: 250°C/10 SECONDS AT TERMINALS



MECHANICAL DATA

- CASE: MOLDED PLASTIC, DO-214AA (SMB), DIMENSIONS IN MILLIMETERS (MILLIMETERS)
- TERMINALS: SOLDER PLATED
- POLARITY INDICATED BY CATHODE BAND
- WEIGHT 0.093 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 | SS22 | SS23 | SS24 | SS25 | SS26 | SS28 | SS210 | UNITS |
|--|-----------------|--------------|------|------|------|------|------|-------|-------|
| MAXIMUM RECURRENT PEAK REVERSE VOLTAGE | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| MAXIMUM RMS VOLTAGE | V_{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | 70 | V |
| MAXIMUM DC BLOCKING VOLTAGE | V_{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 100 | V |
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1 | I_O | 2.0 | | | | | | | A |
| MAXIMUM OVERLOAD SURGE 8.3ms SINGLE HALF SINE-WAVE | I_{FSM} | 50 | | | | | | | A |
| TYPICAL THERMAL RESISTANCE (NOTE 2) | $R_{\theta jL}$ | 17 | | | | | | | °C/W |
| TYPICAL THERMAL RESISTANCE (NOTE 2) | $R_{\theta jA}$ | 75 | | | | | | | °C/W |
| STORAGE TEMPERATURE RANGE | T_{STG} | -55 TO + 150 | | | | | | | °C |
| OPERATING TEMPERATURE RANGE | T_{OP} | -55 TO + 125 | | | | | | | °C |

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

| CHARACTERISTICS | SYMBOL | SS22 | SS23 | SS24 | SS25 | SS26 | SS28 | SS210 | UNITS |
|---|--------|------|------|------|------|------|------|-------|-------|
| MAXIMUM FORWARD VOLTAGE AT 2.0A AND 25°C(NOTE 1) | V_F | 0.50 | | | 0.70 | | 0.85 | | V |
| MAXIMUM REVERSE CURRENT AT $T_A=25^\circ\text{C}$ (NOTE 1) | I_R | 1.0 | | | | | | | mA |
| MAXIMUM REVERSE CURRENT AT $T_A=125^\circ\text{C}$ (NOTE 1) | I_R | 20.0 | | | | | | | mA |

NOTE: 1. PULSE TEST : 300μS PULSE WIDTH , 1% DUTY CYCLE

2. P.C.B. MOUNTED 0.55"x0.55 "(14x14 mm) 0.013mm THICK COPPER PAD AREAS

RATINGS AND CHARACTERISTIC CURVE SS22 THRU SS210

FIG. 1 - FORWARD CURRENT DERATING CURVE

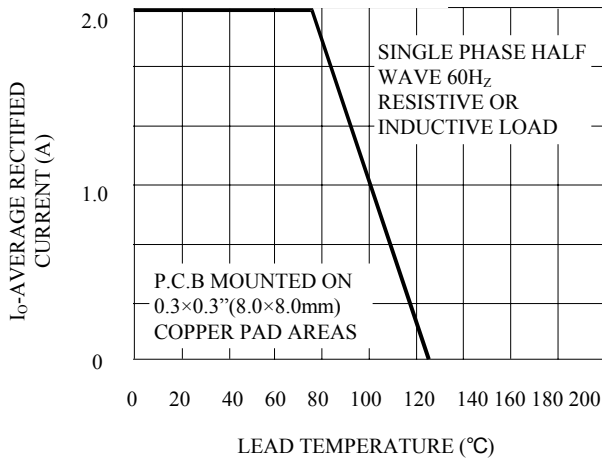


FIG.2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

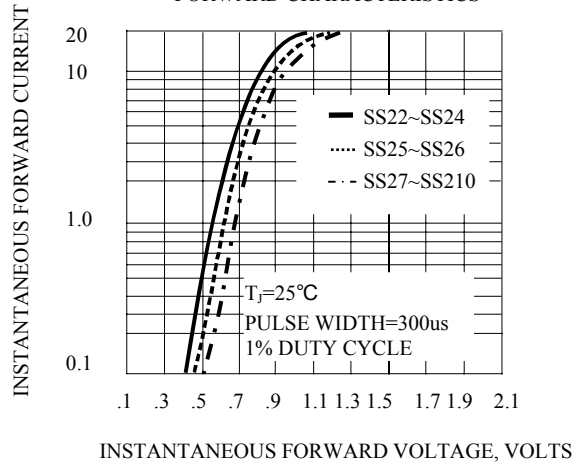


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

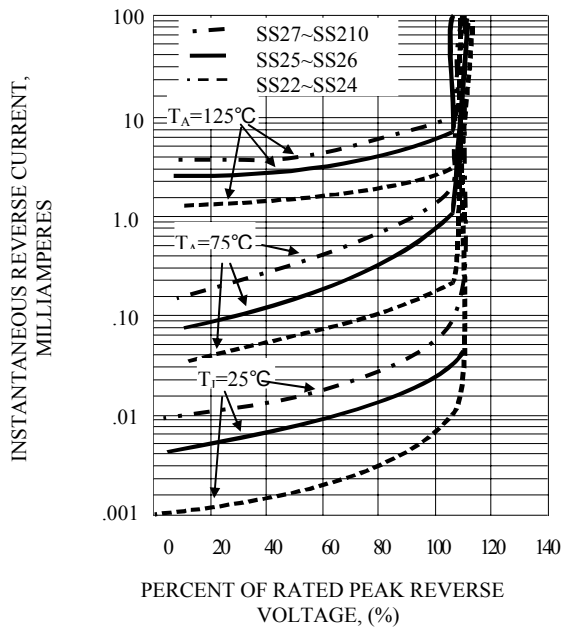


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

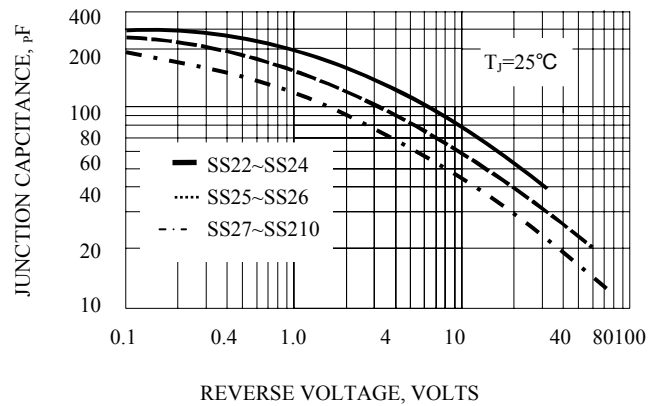


FIG. 5 - MAXIMUM NON-REPETITIVE SURGE CURRENT

