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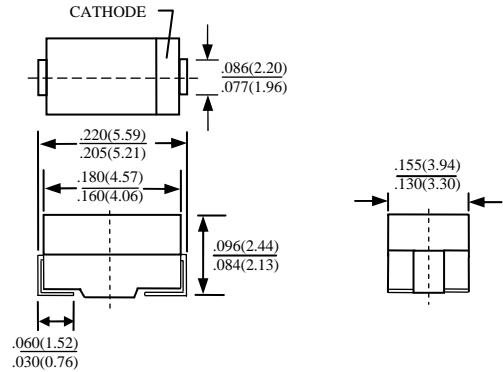
## 6A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS SS62B THRU SS610B

### 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 INCHES AND (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          | SS62B        | SS63B | SS64B | SS65B | SS66B | SS68B | SS610B | UNITS |
|--|-----------------|--------------|-------|-------|-------|-------|-------|--------|-------|
| MAXIMUM RECURRENT PEAK REVERSE VOLTAGE                 | $V_{RRM}$       | 20           | 30    | 40    | 50    | 60    | 80    | 60     | 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<br>SEE FIG.1 | $I_O$           | 6.0          |       |       |       |       |       |        | A     |
| MAXIMUM OVERLOAD SURGE 8.3ms SINGLE HALF SINE-WAVE     | $I_{FSM}$       | 150          |       |       |       |       |       |        | A     |
| TYPICAL JUNCTION CAPACITANCE (NOTE 1)                  | $C_J$           | 300          |       |       |       |       |       |        | PF    |
| TYPICAL THERMAL RESISTANCE (NOTE 2)                    | $R_{\theta JL}$ | 17           |       |       |       |       |       |        | °C/W  |
| TYPICAL THERMAL RESISTANCE (NOTE 2)                    | $R_{\theta JA}$ | 55           |       |       |       |       |       |        | °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 | SS62B | SS63B | SS64B | SS65B | SS66B | SS68B | SS610B | UNITS |
|--|--------|-------|-------|-------|-------|-------|-------|--------|-------|
| MAXIMUM FORWARD VOLTAGE AT 6.0A AND 25°C | $V_F$  | 0.55  |       |       | 0.70  |       | 0.85  |        | V     |
| MAXIMUM REVERSE CURRENT AT 25°C          | $I_R$  | 1     |       |       |       |       |       |        | mA    |

NOTE: 1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V

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

3. SMA PACKAGE SUFFIX "A", SMB PACKAGE SUFFIX "B", SMC NO SUFFIX

# RATINGS AND CHARACTERISTIC CURVE SS62B THRU SS610B

FIG. 1 - FORWARD CURRENT DERATING CURVE

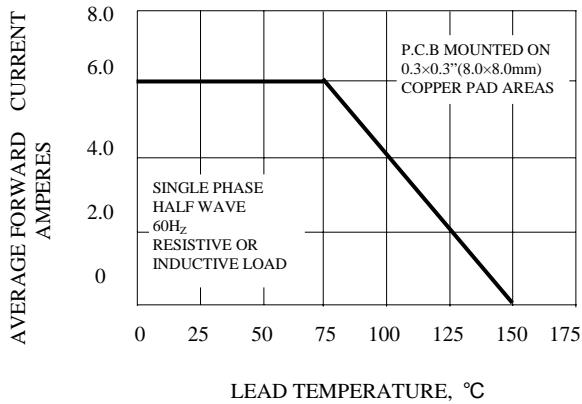


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

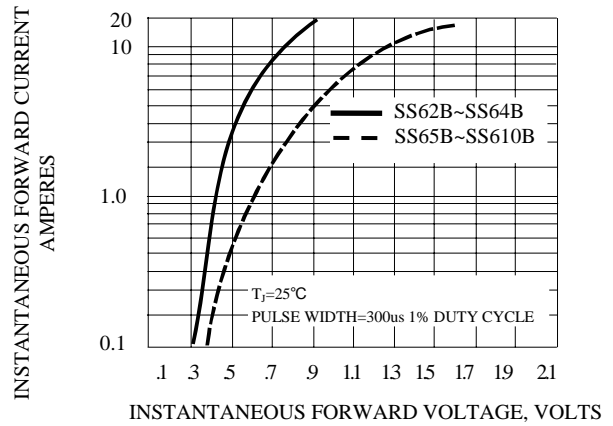


FIG. 3A - TYPICAL REVERSE CHARACTERISTICS

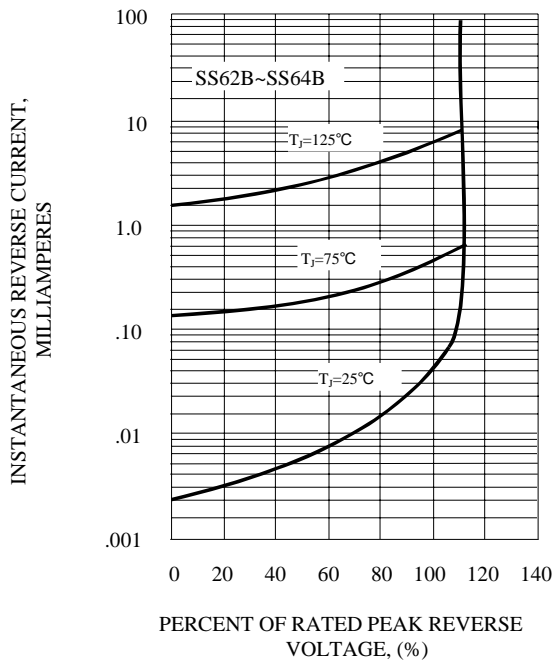


FIG. 3B - TYPICAL REVERSE CHARACTERISTICS

