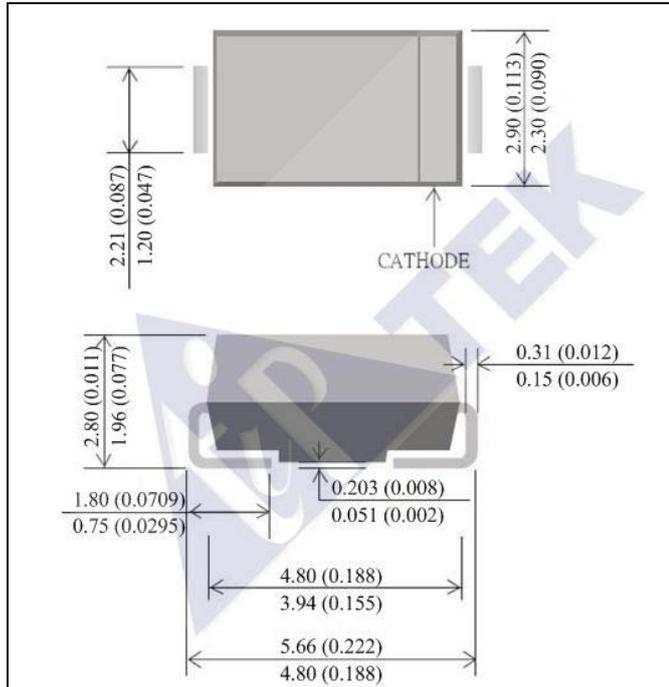


3A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



CASE : DO-214AC(SMA)

DIMENSIONS IN MILLIMETERS AND (INCHES)

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
- TERMINALS : SOLDER PLATED
- POLARITY : INDICATED BY CATHODE BAND
- WEIGHT : 0.066 GRAMS
- Pb Free: SS32A~SS310A
Halogen Free: SS32A-H~SS310A-H

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED. | | | | | | | | | | |
|---|-----------------|---------------|-------|-------|-------|-------|-------|-------|--------|-------|
| PARAMETER | SYMBOL | SS32A | SS33A | SS34A | SS35A | SS36A | SS38A | SS39A | SS310A | UNITS |
| MAXIMUM RECURRENT PEAK REVERSE VOLTAGE | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V |
| MAXIMUM RMS VOLTAGE | V_{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | 63 | 70 | V |
| MAXIMUM DC BLOCKING VOLTAGE | V_{DC} | 20 | 30 | 40 | 50 | 60 | 80 | 90 | 100 | V |
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" (9.5mm) LEAD LENGTH (SEE FIG.1) | I_O | 3.0 | | | | | | | | A |
| PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD | I_{FSM} | 80 | | | | | | | | A |
| TYPICAL THERMAL RESISTANCE (NOTE 1) | $R_{\theta JL}$ | 17 | | | | | | | | °C/W |
| TYPICAL THERMAL RESISTANCE (NOTE 1) | $R_{\theta JA}$ | 55 | | | | | | | | °C/W |
| STORAGE TEMPERATURE RANGE | T_{STG} | - 65 TO + 150 | | | | | | | | °C |
| OPERATING TEMPERATURE RANGE | T_J | - 65 TO + 150 | | | | | | | | °C |

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

| PARAMETER | SYMBOL | SS32A | SS33A | SS34A | SS35A | SS36A | SS38A | SS39A | SS310A | UNITS |
|--|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| MAXIMUM FORWARD VOLTAGE AT 3A (NOTE 2) | V_F | 0.55 | | | 0.75 | | 0.85 | | | V |
| MAXIMUM DC REVERSE CURRENT | 25°C | 0.5 | | | | | | | | mA |
| | 100°C | | | | | | | | | |

- NOTES : 1. P.C.B. MOUNTED 5.0mm² (14×14 mm) 0.13mm THICK COPPER PAD AREAS
2. PULSE TEST WITH PW= 300us, 2% DUTY CYCLE

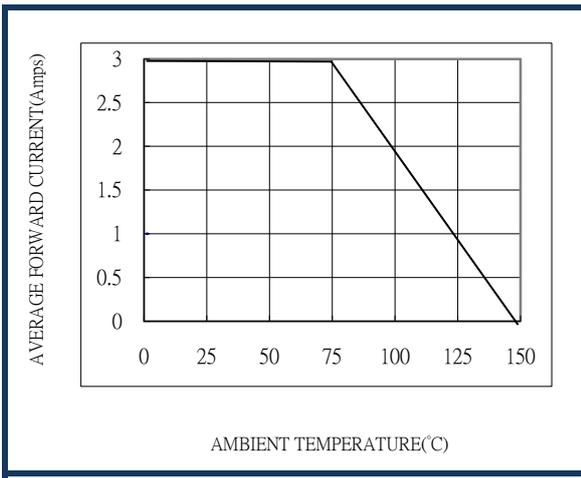


Fig.1-FORWARD CURRENT DERATING CURVE

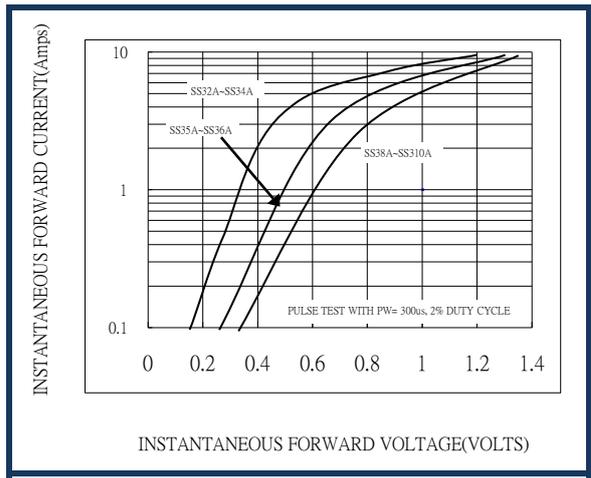


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

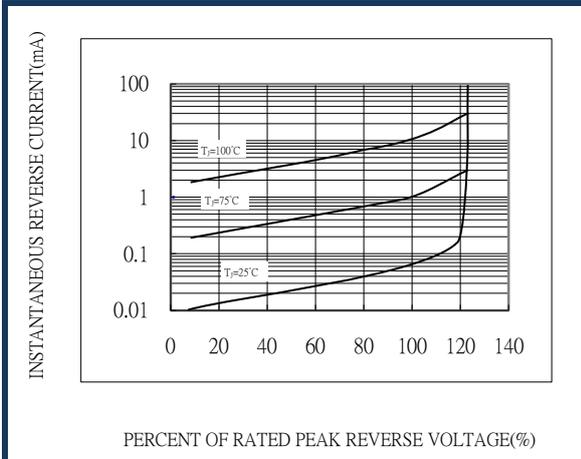


Fig.3-TYPICAL REVERSE CHARACTERISTICS

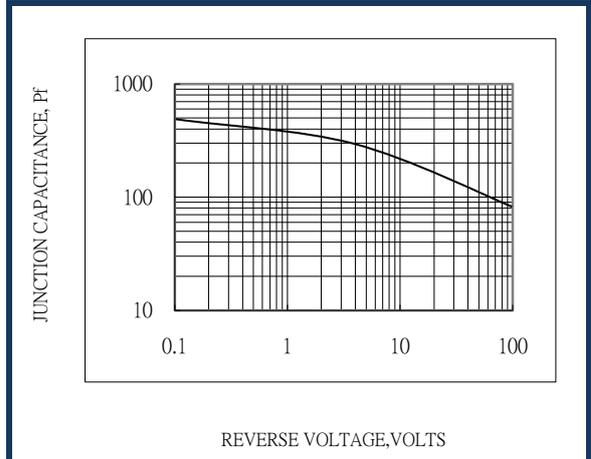


Fig.4-TYPICAL JUNCTION CAPACITANCE

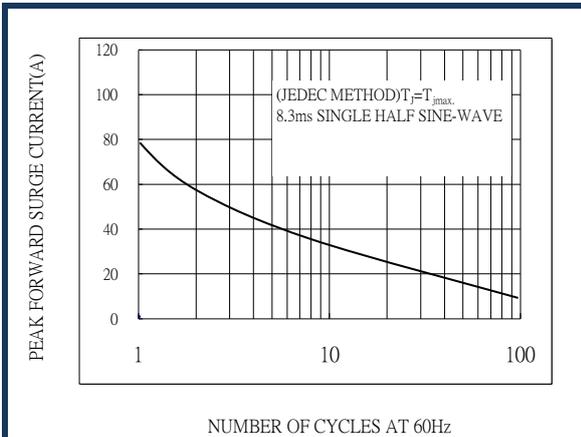


Fig.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT