

VOLTAGE RANGE: 200 V
CURRENT: 1.0 A



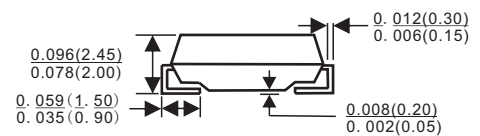
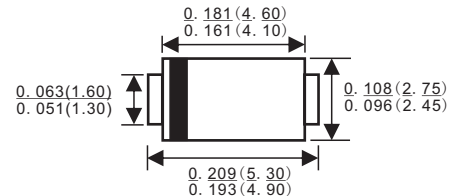
Features

- ✧ Low cost
- ✧ Low leakage
- ✧ Low forward voltage drop
- ✧ High current capability
- ✧ Easily cleaned with Alcohol, Isopropanol and similar solvents
- ✧ The plastic material carries U/L recognition 94V-0

Mechanical Data

- ✧ Case: JEDEC DO-214AA, molded plastic
- ✧ Polarity: Color band denotes cathode
- ✧ Weight: 0.064 gram
- ✧ Mounting position: Any

SMA/DO-214AC



Dimensions in inches and (millimeters)

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 by 20%.

| | | MURS120 | UNITS |
|---|-----------------|-----------------|---------|
| Maximum recurrent peak reverse voltage | V_{RRM} | 200 | V |
| Maximum RMS voltage | V_{RMS} | 140 | V |
| Maximum DC blocking voltage | V_{DC} | 200 | V |
| Maximum average forward rectified current | $I_{F(AV)}$ | 1.0 2.0 | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load | I_{FSM} | 40.0 | A |
| Typical reverse recovery time (Note1) | t_{rr} | 25 | ns |
| Maximum reverse current at rated DC blocking voltage | I_R | 2.0 50.0 | μA |
| Maximum instantaneous forward voltage at 1.0 A | V_F | 0.875 0.71 | V |
| Typical thermal resistance (Note2) | $R_{\theta JL}$ | 13.0 | °C/W |
| Operating junction temperature range | T_J | - 65 ---- + 175 | °C |
| Storage temperature range | T_{STG} | - 65 ---- + 175 | °C |

NOTE: 1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

2. Junction to ambient.

Ratings AND Characteristic Curves

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

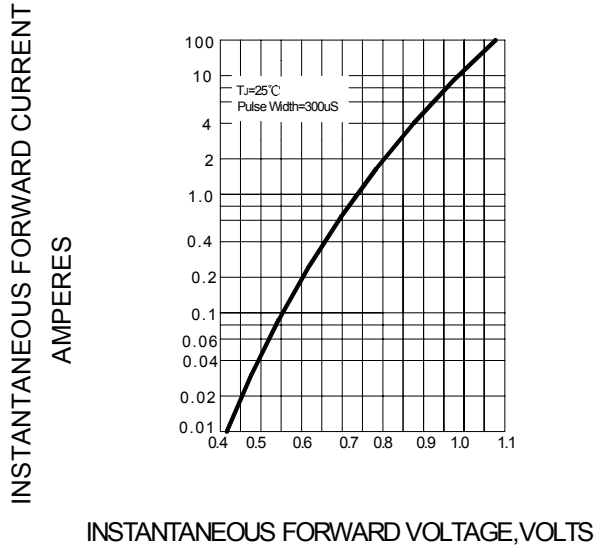


FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS

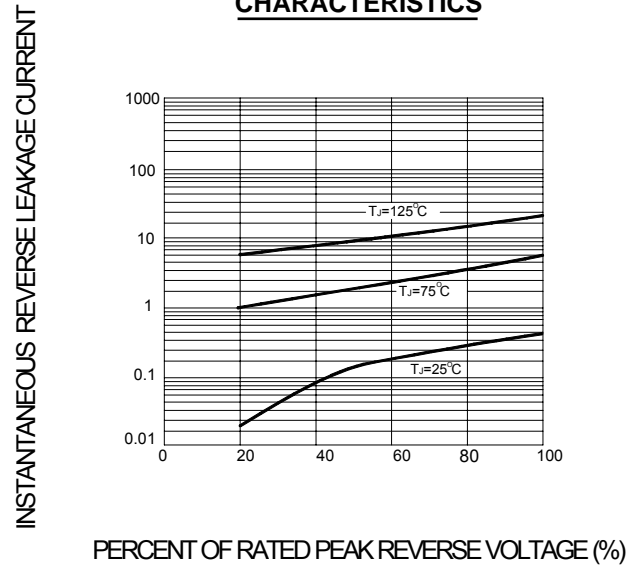


FIG.3 – PEAK FORWARD SURGE CURRENT

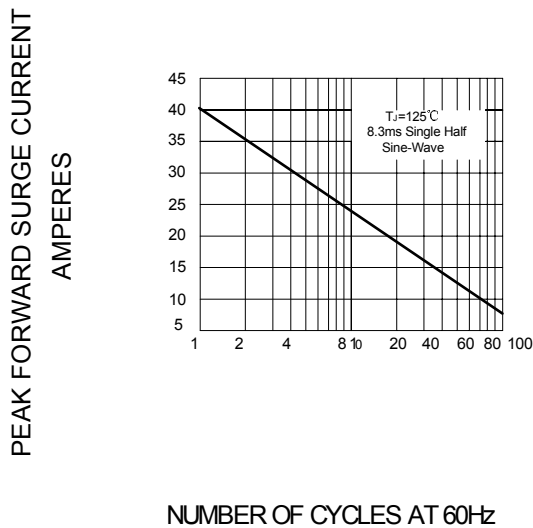
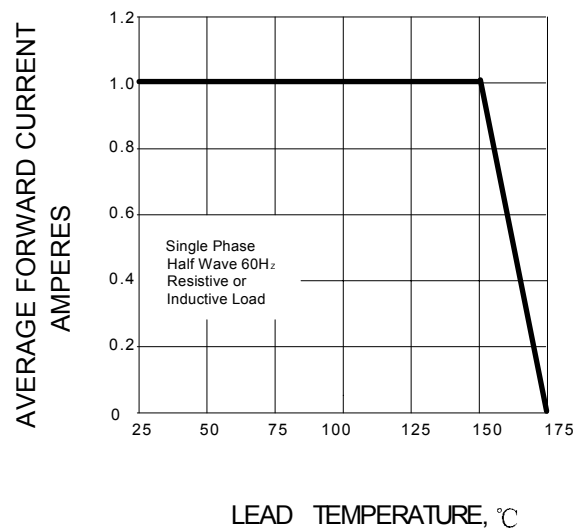


FIG.4 – FORWARD DERATING CURVE



| PACKAGE | SPQ/PCS | CARTON SPQ/PCS | CARTON SIZE/CM | CARTON GW/KG | CARTON NW/KG |
|---------|-----------|----------------|----------------|--------------|--------------|
| SMA | 5000/REEL | 80000 | 36X30.6X31 | 12.00 | 11.00 |