

VOLTAGE RANGE: 400 --- 600 V

CURRENT: 1.0 A



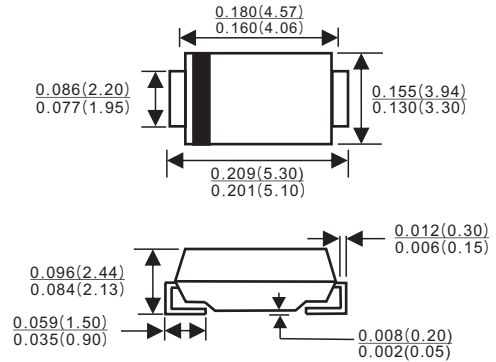
Features

- ✧ 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: 0.003 ounces, 0.093 grams
- ✧ Mounting position: Any

SMB/DO-214AA



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%.

| | | MURS140 | MURS160 | UNITS |
|---|-----------------|-----------------|---------|---------------------------|
| Device marking code | | MURS140 | MURS160 | |
| Maximum recurrent peak reverse voltage | V_{RRM} | 400 | 600 | V |
| Maximum RMS voltage | V_{RMS} | 280 | 420 | V |
| Maximum DC blocking voltage | V_{DC} | 400 | 600 | V |
| Maximum average forward rectified current @ $T_L=110^\circ\text{C}$ | $I_{F(AV)}$ | 1.0 | | A |
| Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @ $T_J=125^\circ\text{C}$ | I_{FSM} | 35 | | A |
| Typical reverse recovery time (Note1) | t_{rr} | 50 | | ns |
| Maximum reverse current @ $T_A=25^\circ\text{C}$ at rated DC blocking voltage @ $T_A=125^\circ\text{C}$ | I_R | 5.0 | 150 | μA |
| Maximum instantaneous forward voltage at 1.0 A | V_F | 1.25 | | V |
| Typical thermal resistance (Note2) | $R_{\theta JL}$ | 13 | | $^\circ\text{C}/\text{W}$ |
| Operating junction temperature range | T_J | - 55 ---- + 150 | | $^\circ\text{C}$ |
| Storage temperature range | T_{STG} | - 55 ---- + 150 | | $^\circ\text{C}$ |

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

2. Junction to ambient.

Ratings AND Characteristic Curves

FIG.1 – TYPICAL FORWARD CHARACTERISTIC

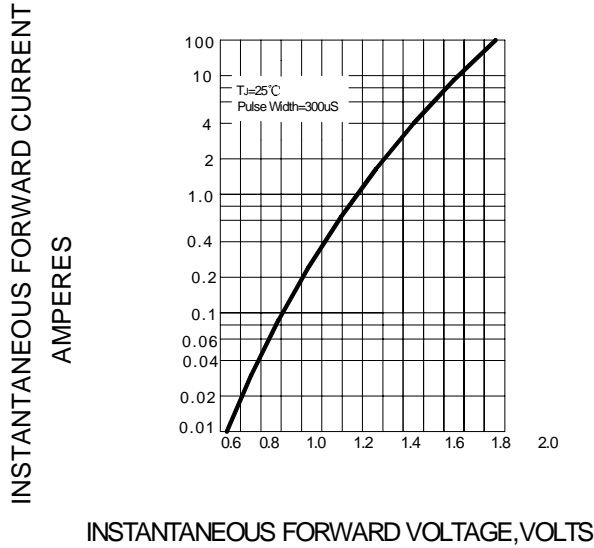


FIG.2 -- TYPICAL REVERSE LEAKAGE CHARACTERISTICS

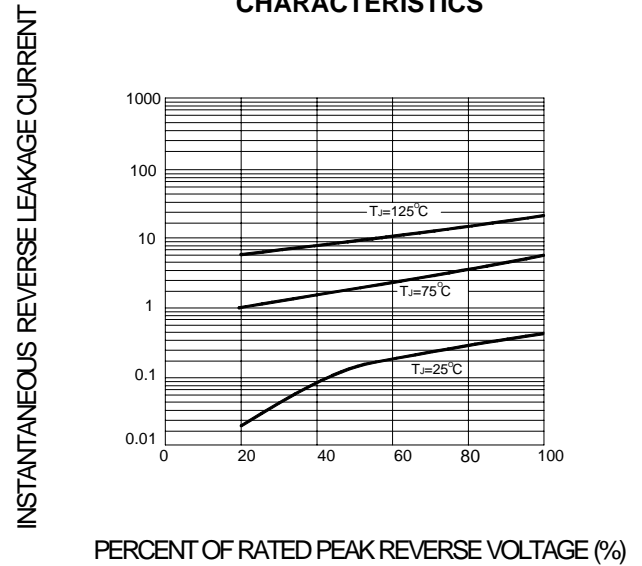


FIG.3 – PEAK FORWARD SURGE CURRENT

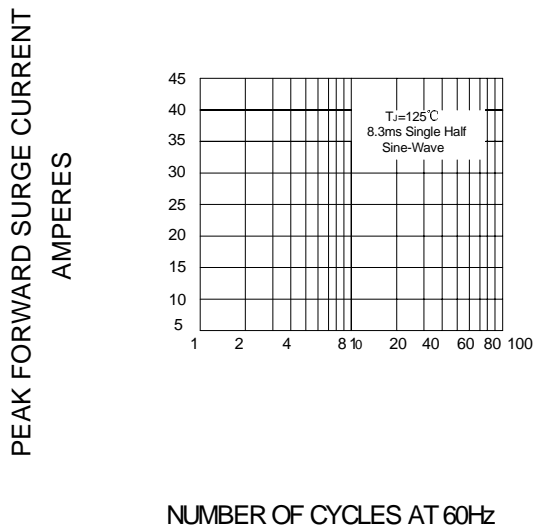
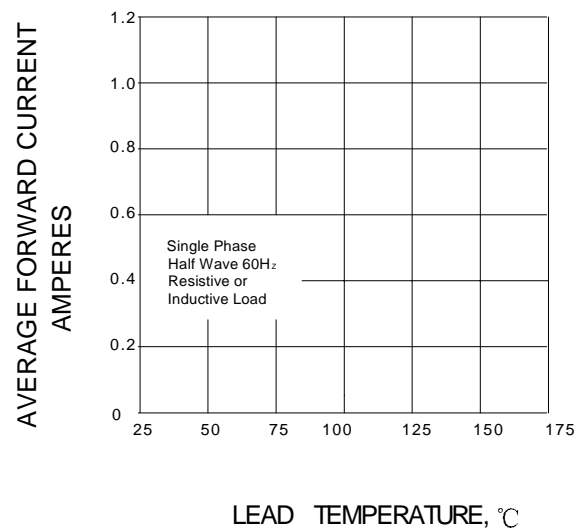


FIG.4 – FORWARD DERATING CURVE



| PACKAGE | SPQ/PCS | CARTON SPQ/PCS | CARTON SIZE/CM | CARTON GW/KG | CARTON NW/KG |
|---------|-----------|----------------|----------------|--------------|--------------|
| SMB | 3000/REEL | 48000 | 36X35.8X36.5 | 12.00 | 11.00 |

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