

CURRENT 8 Ampere
VOLTAGE RANG 200 to 1000 Volts

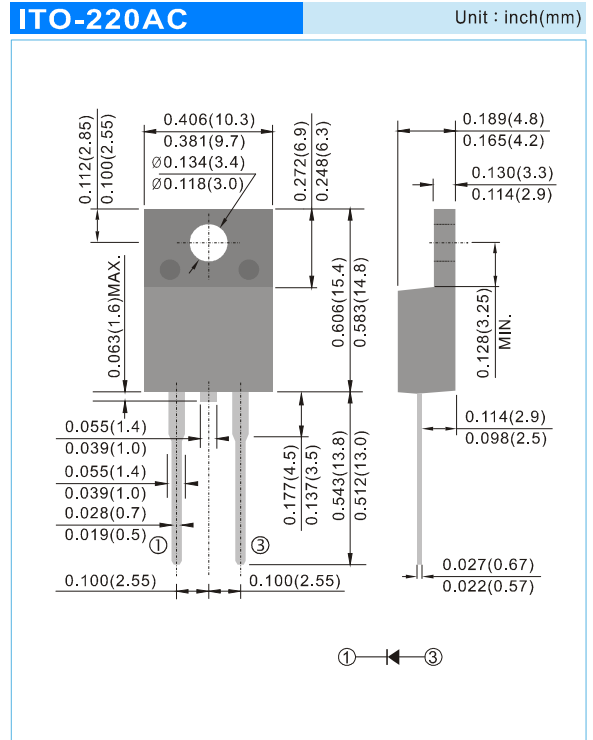
MURF820AC THRU MURF8100AC

FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in compliance with EU RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: Molded plastic, ITO-220AC
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- Polarity: As marking
- Weight: 0.055 ounces, 1.56 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Resistive or inductive load, 60Hz.

| PARAMETER | SYMBOL | MUR 820AC | MUR 840AC | MUR 860AC | MUR 880AC | MUR 8100AC | UNITS |
|--|-----------------|-------------|-----------|-----------|-----------|------------|-----------------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Current at $T_C=75^\circ\text{C}$ | $I_{F(AV)}$ | 8 | | | | | A |
| Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load | I_{FSM} | 125 | | | | | A |
| Maximum Forward Voltage at 8A (Note 1) | V_F | 0.95 | 1.3 | 1.5 | 1.7 | 1.9 | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J=25^\circ\text{C}$ $T_J=100^\circ\text{C}$ | I_R | 10 300 | | | | | μA |
| Maximum Reverse Recovery Time (Note 1) | t_{rr} | 35 | | | 50 | | ns |
| Typical Junction Capacitance (Note 2) | C_J | 65 | | | | | pF |
| Typical Thermal Resistance (Note 3) | $R_{\theta JC}$ | 3 | | | | | $^\circ\text{C} / \text{W}$ |
| Operating Junction and Storage Temperature Range | T_J, T_{STG} | -55 to +150 | | | | | $^\circ\text{C}$ |

NOTES :

1. Pulse Test with $PW=300\mu\text{sec}$, 2% Duty Cycle.
2. Reverse Recovery Tset Conditions : $I_F=0.5\text{A}$, $I_R=-1\text{A}$, $I_{rr}=-0.25\text{A}$
3. Mounted on P.C. Board with 14mm^2 (0.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

