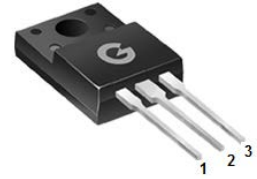
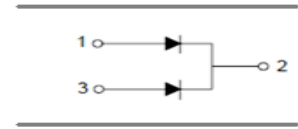


Features

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability

HF



ITO-220AB

Mechanical Data

- Case: ITO-220AB
- Molding Compound: UL Flammability Classification Rating 94V-0
- Terminals: Matte tin-plated leads; solderability-per MIL-STD-202, Method 208

Ordering Information

| Part Number | Package | Shipping Quantity | Marking Code |
|-------------|-----------|-------------------|--------------|
| MUR2020FC | ITO-220AB | 50pcs / Tube | MUR2020FC |
| MUR2030FC | ITO-220AB | 50pcs / Tube | MUR2030FC |
| MUR2040FC | ITO-220AB | 50pcs / Tube | MUR2040FC |
| MUR2060FC | ITO-220AB | 50pcs / Tube | MUR2060FC |

Maximum Ratings (@ T_A = 25°C unless otherwise specified)

| Parameter | Symbol | MUR2020FC | MUR2030FC | MUR2040FC | MUR2060FC | Unit |
|--|--------------------|-----------|-----------|-----------|-----------|------|
| Peak Repetitive Reverse Voltage | V _{RRM} | 200 | 300 | 400 | 600 | V |
| RMS Reverse Voltage | V _{RMS} | 140 | 210 | 280 | 420 | V |
| DC Blocking Voltage | V _{DC} | 200 | 300 | 400 | 600 | V |
| Maximum Average Forward Output Current | I _{F(AV)} | 20 | | | | A |
| Peak Forward Surge Current (8.3ms single half sine-wave) | I _{FSM} | 100 | | | | A |

Thermal Characteristics

| Parameter | Symbol | Value | Unit |
|--|------------------|------------|------|
| Thermal Resistance (Junction-to-Ambient) ^{*1} | R _{θJA} | 12 | °C/W |
| Thermal Resistance (Junction-to-Case) ^{*1} | R _{θJC} | 7 | °C/W |
| Thermal Resistance (Junction-to-Lead) ^{*1} | R _{θJL} | 4 | °C/W |
| Operating Junction Temperature Range | T _J | -55 ~ +150 | °C |
| Storage Temperature Range | T _{STG} | -55 ~ +150 | °C |

Electrical Characteristics (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

| Symbol | Parameter | Test Condition | MUR20 20FC | MUR20 30FC | MUR20 40FC | MUR20 60FC | Unit |
|----------|---------------------------------|--|---------------|---------------|---------------|---------------|---------------|
| | | | Max. | | | | |
| V_F | Forward Voltage | $I_F = 10\text{A}$ | 0.98 | 1.3 | 1.3 | 1.5 | V |
| I_R | Maximum Peak Reverse Current | $V_R = V_{RRM}, T_A = 25^\circ\text{C}$ | 5 | 10 | 10 | 10 | μA |
| | | $V_R = V_{RRM}, T_A = 125^\circ\text{C}$ | 50 | 100 | 100 | 100 | μA |
| t_{rr} | Reverse Recovery Time | $I_F = 0.5\text{A}, I_{rr} = 0.25\text{A},$ $I_R = 1\text{A}$ | 25 | 50 | 50 | 50 | ns |

Note 1: The data tested by surface mounted on a 4.15cm * 5.4cm * 0.25cm aluminum heatsink

Ratings and Characteristics Curves (@ $T_A = 25^\circ\text{C}$ unless otherwise specified)

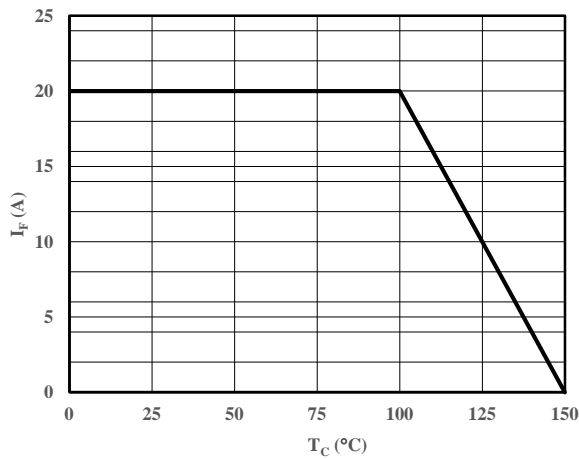


Fig 1 Current Derating Curve

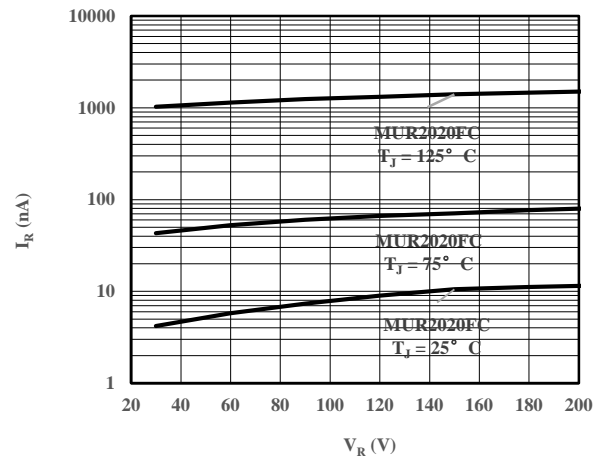


Fig 2 Typical Reverse Characteristic

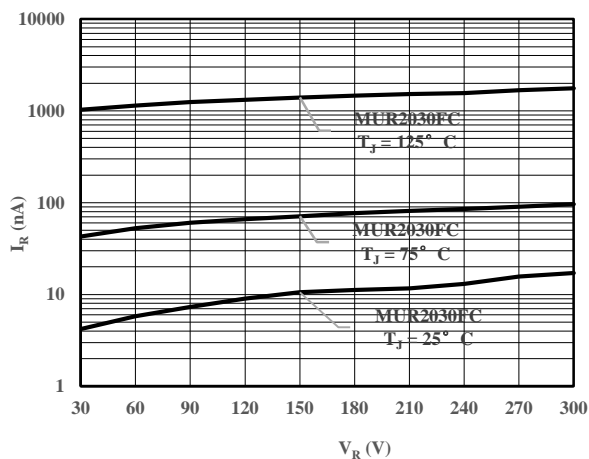


Fig 3 Typical Reverse Characteristic

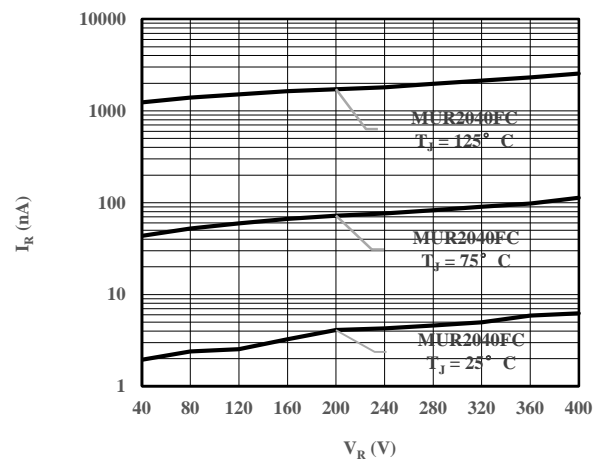


Fig 4 Typical Reverse Characteristic

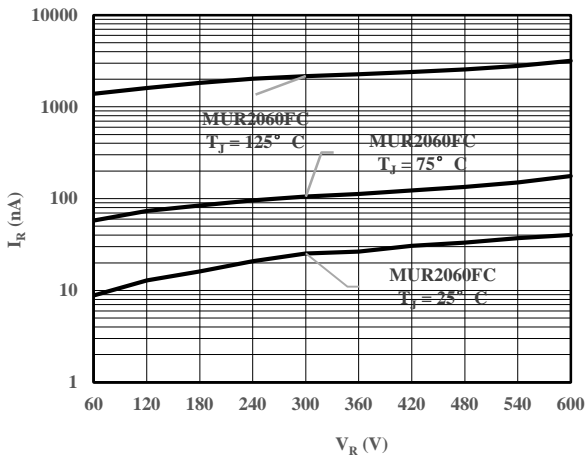


Fig 5 Typical Reverse Characteristic

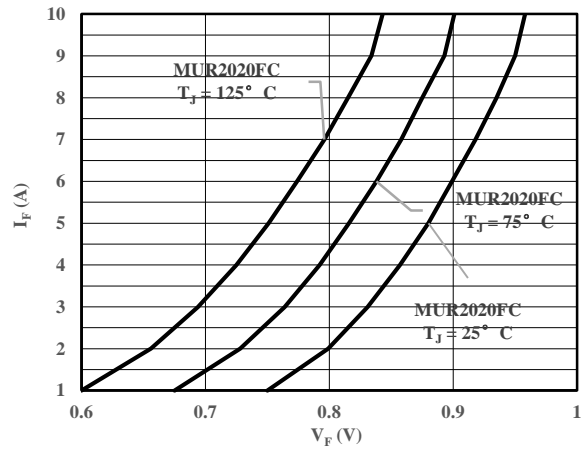


Fig 6 Typical Forward Characteristic

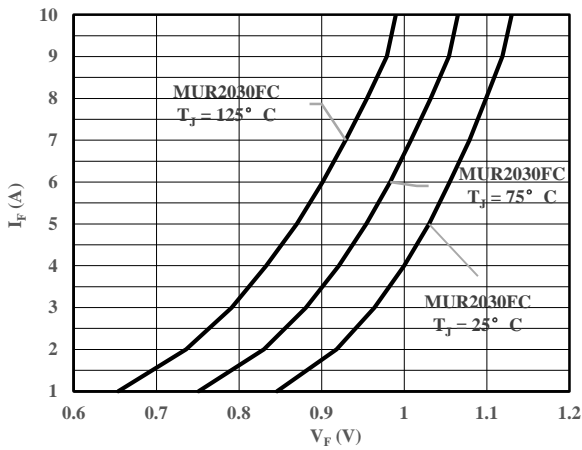


Fig 7 Typical Forward Characteristic

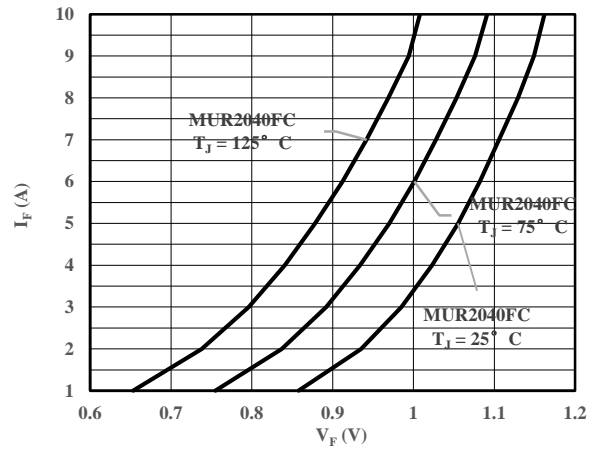


Fig 8 Typical Forward Characteristic

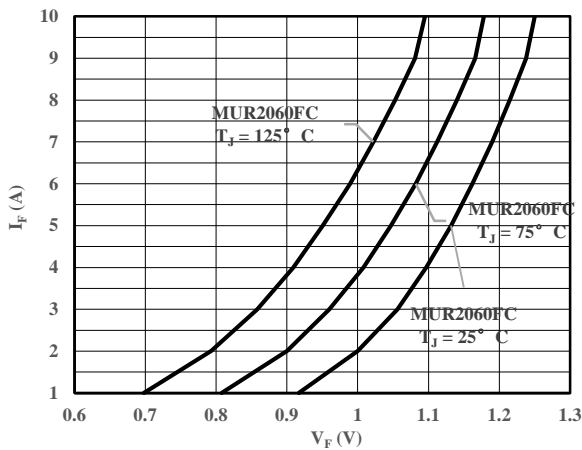
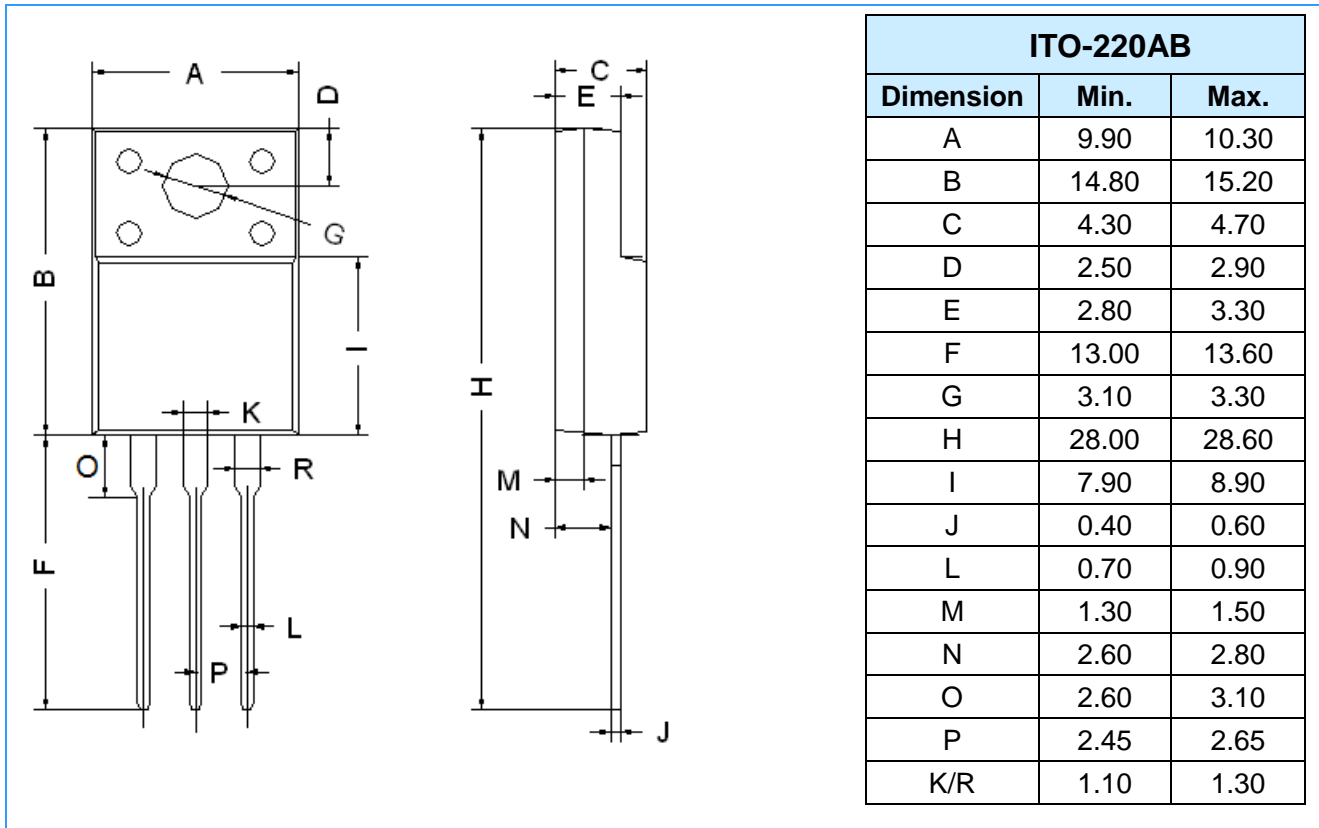


Fig 9 Typical Forward Characteristic

Package Outline Dimensions (Unit: mm)



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