

### Thermal-Mechanical Specifications

| Parameters                                               | Symbol     | Test Conditions | Max         | Unit |
|----------------------------------------------------------|------------|-----------------|-------------|------|
| Junction Temperature                                     | $T_J$      |                 | -55 to +125 | °C   |
| Storage Temperature                                      | $T_{stg}$  |                 | -55 to +125 | °C   |
| Maximum Thermal Resistance<br>Junction to Case (per leg) | $R_{thJC}$ | DC operation    | 3.5         | °C/W |
| Maximum Thermal<br>Resistance Case to Heat Sink          | $R_{thJS}$ | DC operation    | 60          | °C/W |
| Approximate Weight                                       | wt         |                 | 2           | g    |
| Case Style                                               | ITO-220AB  |                 |             |      |

Figure 1: Typical Forward Characteristics

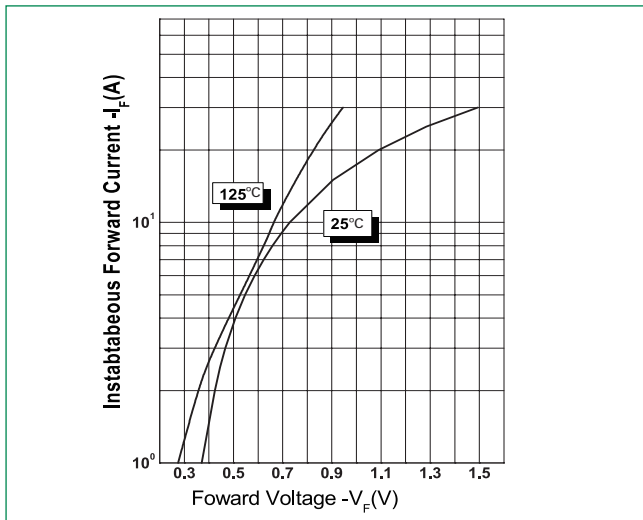


Figure 2: Typical Reverse Characteristics

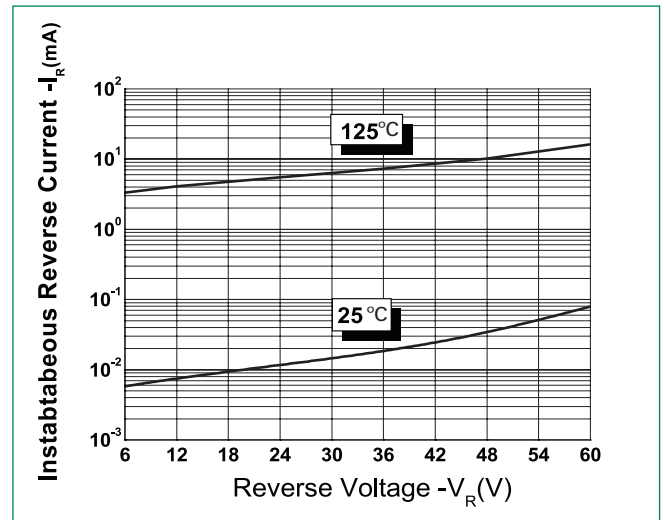
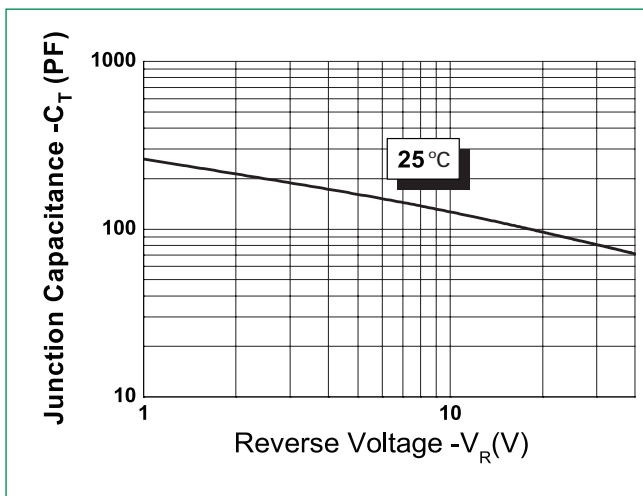
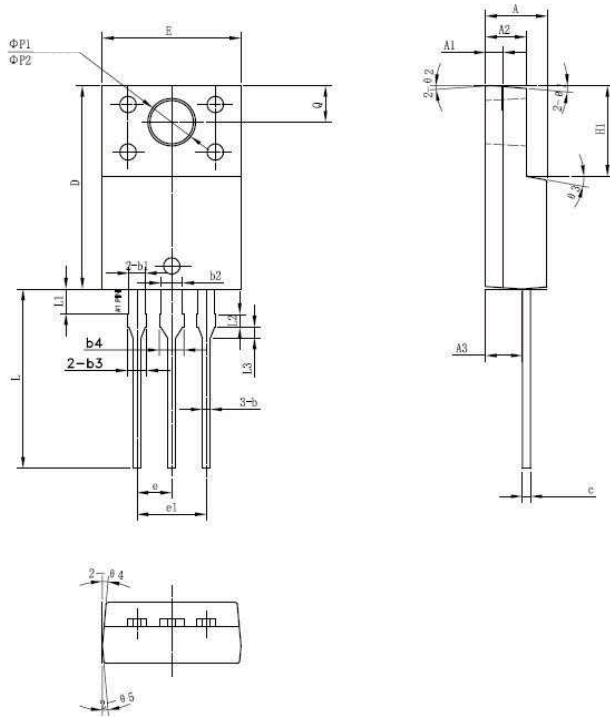


Figure 3: Typical Junction Capacitance



### Dimensions- ITO-220AB

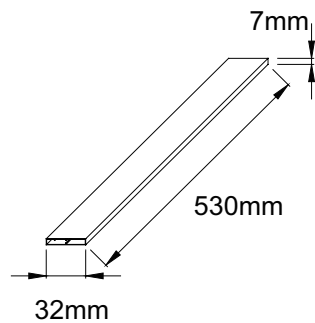


| Symbol     | Millimeters |       |       |
|------------|-------------|-------|-------|
|            | Min         | Typ   | Max   |
| <b>A</b>   | 4.30        | 4.50  | 4.70  |
| <b>A1</b>  | 1.10        | 1.30  | 1.50  |
| <b>A2</b>  | 2.80        | 3.00  | 3.20  |
| <b>A3</b>  | 2.50        | 2.70  | 2.90  |
| <b>b</b>   | 0.50        | 0.60  | 0.75  |
| <b>b1</b>  | 1.10        | 1.20  | 1.35  |
| <b>b2</b>  | 1.50        | 1.60  | 1.75  |
| <b>b3</b>  | 1.20        | 1.30  | 1.45  |
| <b>b4</b>  | 1.60        | 1.70  | 1.85  |
| <b>c</b>   | 0.55        | 0.60  | 0.75  |
| <b>D</b>   | 14.80       | 15.00 | 15.20 |
| <b>E</b>   | 9.96        | 10.16 | 10.36 |
| <b>e</b>   | -           | 2.55  | -     |
| <b>e1</b>  | -           | 5.10  | -     |
| <b>H1</b>  | 6.50        | 6.70  | 6.90  |
| <b>L</b>   | 12.70       | 13.20 | 13.70 |
| <b>L1</b>  | 1.60        | 1.80  | 2.00  |
| <b>L2</b>  | 0.80        | 1.00  | 1.20  |
| <b>L3</b>  | 0.60        | 0.80  | 1.00  |
| <b>ØP1</b> | 3.30        | 3.50  | 3.70  |
| <b>ØP2</b> | 2.99        | 3.19  | 3.39  |
| <b>Q</b>   | 2.50        | 2.70  | 2.90  |
| <b>Ø1</b>  | -           | 5°    | -     |
| <b>Ø2</b>  | -           | 4°    | -     |
| <b>Ø3</b>  | -           | 10°   | -     |
| <b>Ø4</b>  | -           | 5°    | -     |
| <b>Ø5</b>  | -           | 5°    | -     |

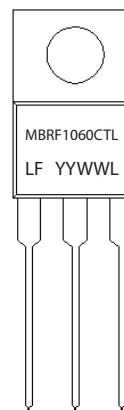
### Packing Options

| Part Number | Marking     | Packing Mode | M.O.Q |
|-------------|-------------|--------------|-------|
| MBRF1060CTL | MBRF1060CTL | 50pcs / Tube | 1000  |

### Tube Specification



### Part Numbering and Marking System



MBR = Device Type  
 F = Package Type  
 10 = Forward Current (10A)  
 60 = Reverse Voltage (60V)  
 CTL = Configuration  
 LF = Littelfuse  
 YY = Year  
 WW = Week  
 L = Lot Number