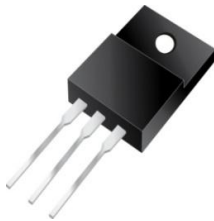




# P10X200FCT



## Excellent Schottky Barrier Rectifiers



**ITO-220AB**

| Primary Characteristics |      |    |
|-------------------------|------|----|
| $I_F$                   | 10   | A  |
| $V_{RRM}$               | 200  | V  |
| $I_{FSM}$               | 200  | A  |
| $V_F$                   | 0.81 | V  |
| $T_J$ max               | 150  | °C |

| Features  |
|---|
| <ul style="list-style-type: none"> <li>• Low Forward Voltage Drop</li> <li>• Excellent High Temperature Stability</li> <li>• Excellent Barrier Rectifier Technology</li> <li>• Soft, Fast Switching Capability</li> </ul> |

| Mechanical Data   |
|---|
| <ul style="list-style-type: none"> <li>• Case: ITO-220AB</li> <li>• Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0</li> <li>• Terminals: Matte Tin Finish annealed over Copper leadframe.Solderable per MIL-STD-202, Method 208</li> <li>• Weight: 1.645 grams (approximate)</li> </ul> |

| Ordering Information |              |           |                        |
|----------------------|--------------|-----------|------------------------|
| Part No.             | Remark       | Package   | Packing                |
| P10X200FCT           | General      | ITO-220AB | 50 & 2000 / Tube & Box |
| P10X200FCT-H         | Halogen Free |           |                        |

| Maximum Ratings (TA=25°C unless otherwise noted)  |                 |                        |      |
|---|-----------------|------------------------|------|
| PARAMETER   | SYMBOL          | P10X200FCT             | UNIT |
| Maximum repetitive 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 (Total)<br>(Per Leg)                          | $I_F$           | 10<br>5                | A    |
| Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load      | $I_{FSM}$       | 200                    | A    |
| Maximum Instantaneous Forward Voltage<br>$I_F=3A @ 25^\circ C$<br>$I_F=5A @ 25^\circ C$ | $V_F$           | 0.70 Typ.<br>0.81 Max. | V    |
| Maximum DC Reverse Current @ TA=25°C<br>at Rated DC Blocking Voltage @ TA=125°C         | $I_R$           | 0.2<br>5               | mA   |
| Typical Junction Capacitance(NOTE1)   | $C_j$           | 170                    | pF   |
| Typical Thermal Resistance  | $R_{\theta JC}$ | 3                      | °C/W |
| Operating Temperature Range   | $T_J$           | -55 to +150            | °C   |
| Storage Temperature Range   | $T_{STG}$       | -55 to +175            | °C   |
| Marking Code  |                 | P10X200FCT、10X200FCT   |      |

**NOTES:**

1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC



## Excellent Schottky Barrier Rectifiers

### Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

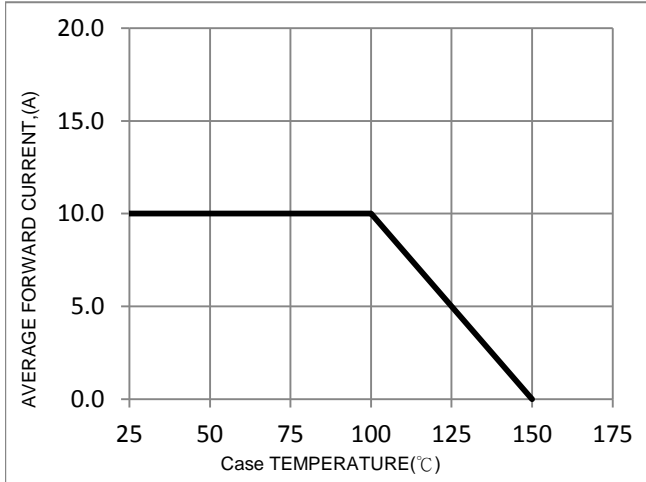


FIG. 2-Typical Forward Characteristics

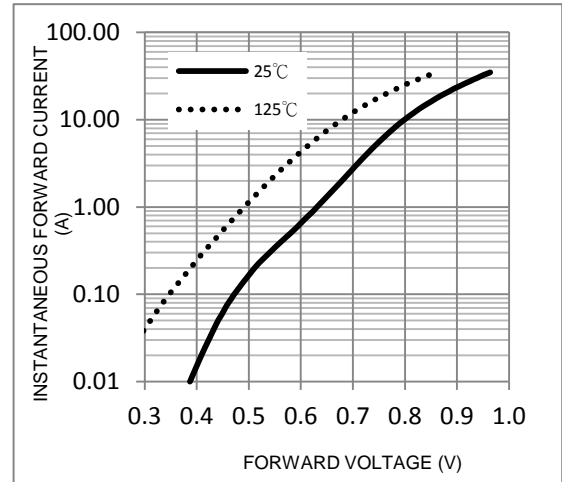


FIG. 3-Maximum Non-Repetitive Forward Surge Current

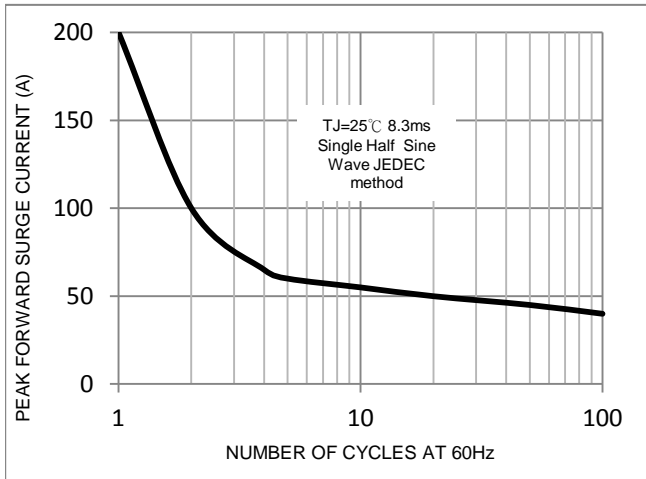


FIG. 4-Typical Reverse Characteristics

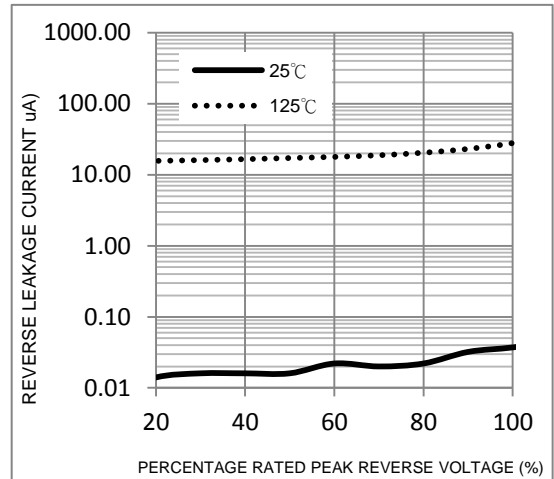
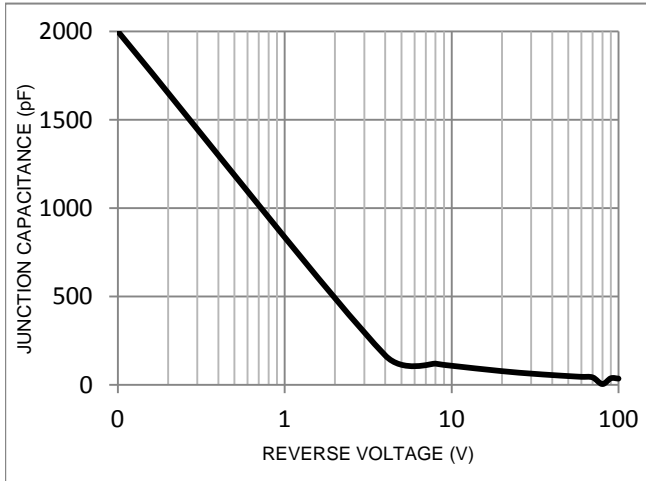
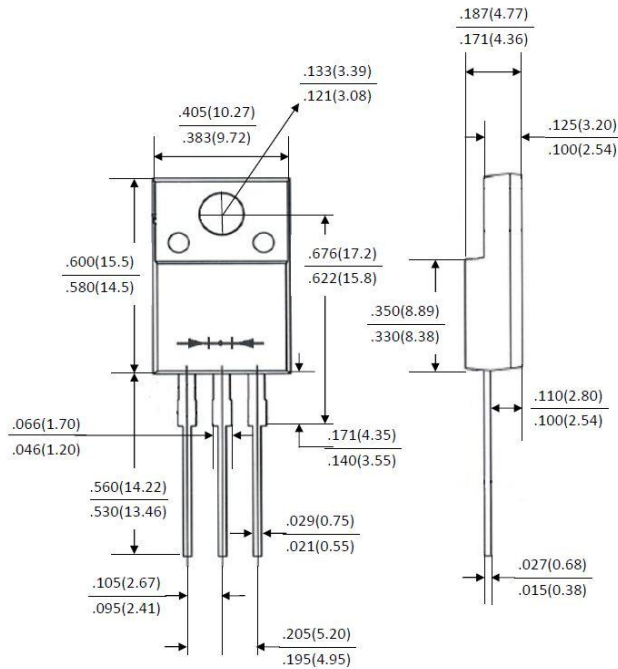


FIG. 5-Typical Junction Capacitance



### Package Outline Dimensions



### ITO-220AB

Dimensions in inches and (millimeters)

### Marking Information

