

## 200 mW LL-34 Hermetically Sealed Glass Fast Switching Schottky Barrier Diode

### Specification Features:

- Low Forward Voltage Drop
- LL-34 Package (JEDEC)
- Through-Hole Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All External Surfaces Are Corrosion Resistant And Leads Are Readily Solderable
- RoHS Compliant
- Solder Hot Dip Tin (Sn) Lead Finish



SURFACE MOUNT LL34 Cathode Band Color: Black

### Absolute Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol      | Parameter                         | Value       | Units            |
|-------------|-----------------------------------|-------------|------------------|
| $P_D$       | Power Dissipation                 | 200         | mW               |
| $T_{STG}$   | Storage Temperature Range         | -65 to +125 | $^\circ\text{C}$ |
| $T_J$       | Operating Junction Temperature    | +125        | $^\circ\text{C}$ |
| $V_{RRM}$   | Repetitive Peak Reverse Voltage   | 30          | V                |
| $V_R$       | Maximum DC Blocking Voltage       | 30          | V                |
| $I_{F(AV)}$ | Average Forward Rectified Current | 200         | mA               |
| $I_{FSM}$   | Peak Forward Surge Current        | 4           | A                |



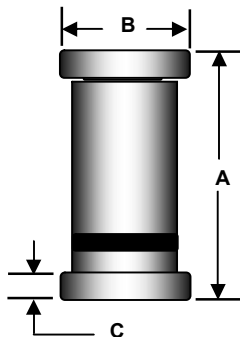
ELECTRICAL SYMBOL

These ratings are limiting values above which the serviceability of the diode may be impaired.

### Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

| Symbol   | Parameter               | Test Condition                                                                                                   | Limits |     |                                      | Unit          |
|----------|-------------------------|------------------------------------------------------------------------------------------------------------------|--------|-----|--------------------------------------|---------------|
|          |                         |                                                                                                                  | Min    | Typ | Max                                  |               |
| $B_V$    | Breakdown Voltage       | $I_R = 10\mu\text{A}$                                                                                            | 30     |     |                                      | Volts         |
| $I_R$    | Reverse Leakage Current | $V_R = 25\text{V}$                                                                                               |        |     | 2                                    | $\mu\text{A}$ |
| $V_F$    | Forward Voltage         | $I_F = 0.1\text{mA}$<br>$I_F = 1\text{mA}$<br>$I_F = 10\text{mA}$<br>$I_F = 30\text{mA}$<br>$I_F = 100\text{mA}$ |        |     | 0.24<br>0.32<br>0.40<br>0.50<br>0.80 | Volts         |
| $T_{RR}$ | Reverse Recovery Time   | $I_F = I_R = 10\text{mA}$<br>$R_L = 100\Omega$<br>$I_{RR} = 1\text{mA}$                                          |        | 5   |                                      | nS            |
| $C$      | Capacitance             | $V_R = 1\text{V}$ , $f = 1\text{MHz}$                                                                            |        | 7   | 10                                   | pF            |

## Package Outline



| DIM | LL-34       |      |        |       |
|-----|-------------|------|--------|-------|
|     | Millimeters |      | Inches |       |
|     | Min         | Max  | Min    | Max   |
| A   | 3.30        | 3.60 | 0.130  | 0.142 |
| B   | 1.40        | 1.50 | 0.055  | 0.059 |
| C   | 0.35        | 0.50 | 0.014  | 0.020 |

### Notes:

1. All dimensions are within DO213AC JEDEC standard.
2. LL-34 polarity denoted by cathode band.