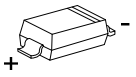
# SURFACE MOUNT SILICON ZENER DIODE



SOD-323

## ■ DESCRIPTION

The UTC **BZT52** is a surface mount silicon Zener Diode using UTC's advanced technology to provide customers with low power dissipation.

The UTC **BZT52** is universally applied in Automated Assembly Processes.

## ■ FEATURES

* Low Power Dissipation: 200mW
* Zener Voltage (Typically 5.6V)
* Planar Die construction

## ■ ORDERING INFORMATION

| Ordering Number | | Package | Pin Assignment | | Packing |
|---|---|---|---|---|---|
| Lead Free | Halogen Free | | 1 | 2 | |
| BZT52L-CB2-R | BZT52G-CB2-R | SOD-323 | A | K | Tape Reel |

Note: Pin Assignment: A: Anode, K: Cathode

| | |
|---|---|
| BZT52L-CB2-R<br>(1)Packing Type<br>(2)Package Type<br>(3)Lead Free | (1) R: Tape Reel<br>(2) CB2 : SOD-323<br>(3) G: Halogen Free, L: Lead Free |

## ■ MARKING

| PACKAGE | MARKING |
|---|---|
| SOD-323 | T56□ → L: Lead Free<br>G: Halogen Free |

## ■ ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | RATINGS | UNIT |
|---|---|---|---|
| Power Dissipation ($T_A$=25°C) (Note 1) | $P_D$ | 200 | mW |
| Junction Temperature | $T_J$ | +150 | °C |
| Storage Temperature | $T_{STG}$ | -55~+150 | °C |

Notes: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

1. Mounted on 5.0mm$^2$(.013mm thick) land areas.

## ■ ELECTRICAL CHARACTERISTICS

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|---|---|---|---|---|---|---|
| Zener Voltage | $V_Z$ | | 5.49 | 5.6 | 5.71 | V |
| Zener Impedance | $Z_{ZT}$ | $I_{ZH}$=5.0mA | | | 40 | Ω |
| | | $I_{ZX}$=1.00mA | | | 400 | Ω |
| Reverse Leakage Current | $I_R$ | $V_R$=1.0V | | | 0.1 | μA |