



## BZT52

Preliminary

DIODE

### SURFACE MOUNT SILICON ZENER DIODE

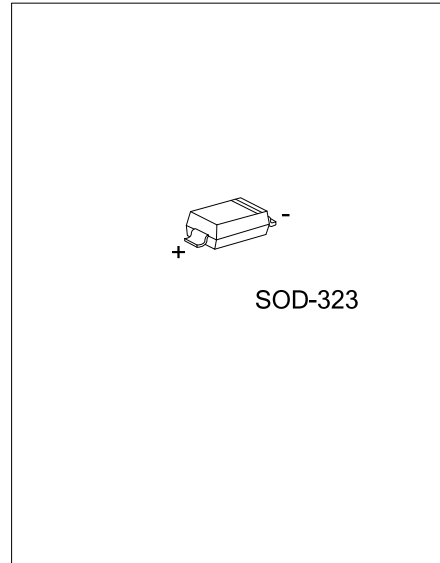
#### DESCRIPTION

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

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

PACKAGE	MARKING
SOD-323	<p>L: Lead Free G: Halogen Free</p>

### ■ ABSOLUTE MAXIMUM RATINGS

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

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  $5.0\text{mm}^2$  (.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	$Z_{ZT}$	$I_{ZH}=5.0\text{mA}$			40	$\Omega$
		$I_{ZX}=1.00\text{mA}$			400	$\Omega$
Reverse Leakage Current	$I_R$	$V_R=1.0\text{V}$			0.1	$\mu\text{A}$

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