



BZT52B5V6S

DIODE

SURFACE MOUNT SILICON ZENER DIODE

DESCRIPTION

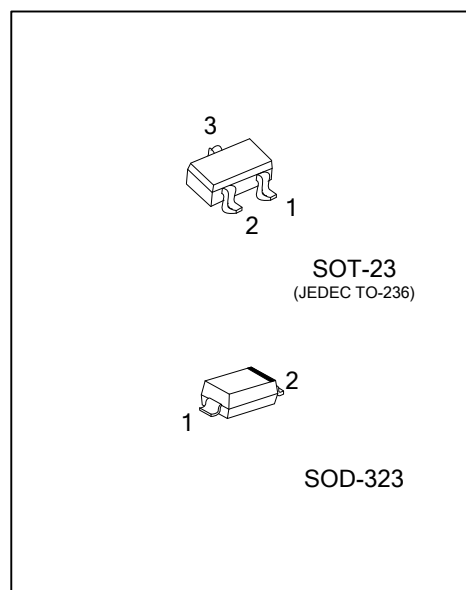
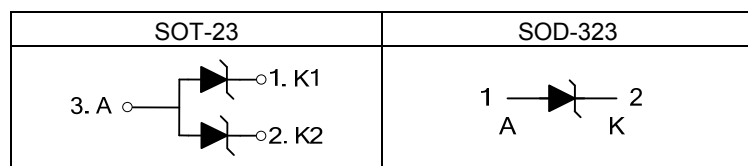
The UTC **BZT52B5V6S** is a surface mount silicon Zener Diode using UTC's advanced technology to provide customers with low power dissipation.

The UTC **BZT52B5V6S** is universally applied in Automated Assembly Processes.

FEATURES

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

SYMBOL



ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
BZT52B5V6SL-AE3-R	BZT52B5V6SG-AE3-R	SOT-23	K1	K2	A	Tape Reel
BZT52B5V6SL-CB2-R	BZT52B5V6SG-CB2-R	SOD-323	A	K	-	Tape Reel

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

<p>BZT52B5V6SL-AE3-R</p> <p>(1) Packing Type (2) Package Type (3) Lead Free</p>	<p>(1) R: Tape Reel (2) AE3: SOT-23, CB2 : SOD-323 (3) L: Lead Free, G: Halogen Free</p>
---	--

MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOD-323	5.6: 5.6V	<p>Voltage Code ← BXXX → 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.

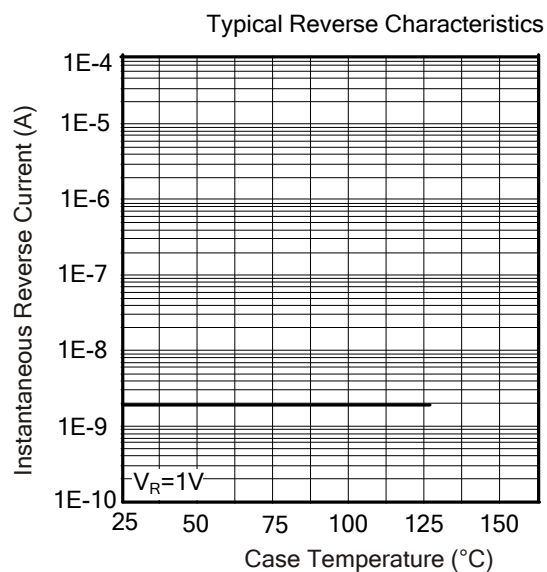
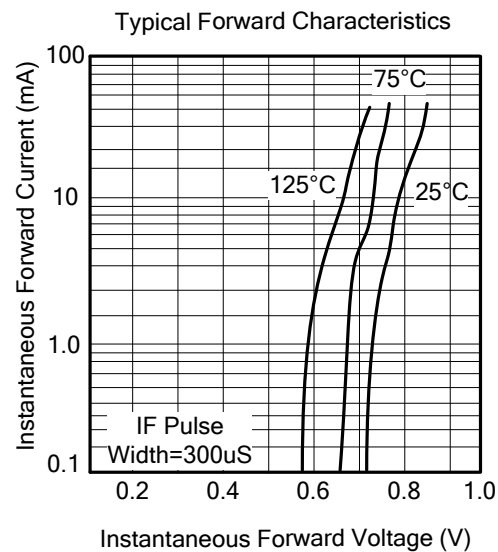
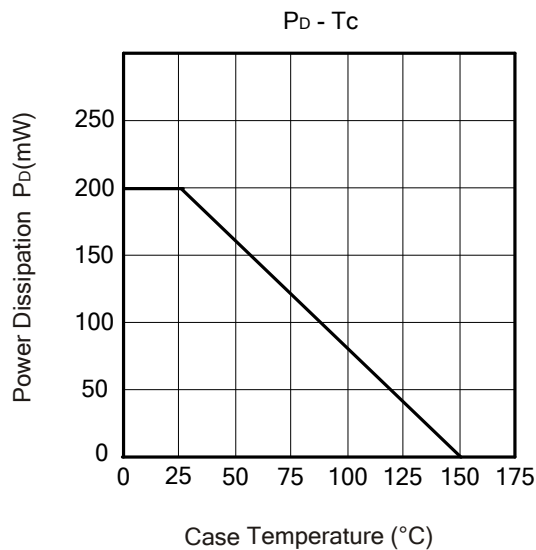
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

1. Mounted on 5.0mm^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}	$I_{ZH}=5.0\text{mA}$			40	Ω
		$I_{ZX}=1.00\text{mA}$			400	Ω
Reverse Leakage Current	I_R	$V_R=1.0\text{V}$			0.1	μA

■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.