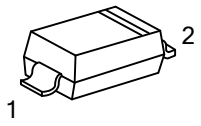
BZT52B5V6S **Preliminary** ***DIODE***

SURFACE MOUNT SILICON ZENER DIODE



SOD-323

■ DESCRIPTION

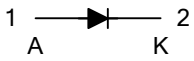
The UTC **BZT52B5V6S** is a surface mount silicon Zener Diode using UTC's advanced technology to provide customers with low power dissipation.

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	
BZT52B5V6SL-CB2-R	BZT52B5V6SG-CB2-R	SOD-323	A	K	Tape Reel

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

BZT52B5V6SL-CB2-R
(1)Packing Type
(2)Package Type
(3)Lead Free

(1) R: Tape Reel
(2) CB2 : SOD-323
(3) G: Halogen Free, L: Lead Free

■ MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOD-323	5.6: 5.6V	BXXX Voltage Code L: Lead Free G: Halogen Free

■ ABSOLUTE MAXIMUM RATINGS

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

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