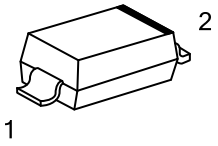
BZT52CXXXS

Preliminary ***ZENER DIODE***

SURFACE MOUNT ZENER DIODE



SOD-323

■ DESCRIPTION

The UTC **BZT52CXXXS** is surface mount zener diode. it uses UTC's advanced technology to provide the customers with low leakage current, etc.

The UTC **BZT52CXXXS** is suitable for automated assembly processes, etc.

■ FEATURES

* Low leakage current

■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
BZT52C5V6SL-CB2-R	BZT52C5V6SG-CB2-R	SOD-323	A	K	Tape Reel
BZT52C6V2SL-CB2-R	BZT52C6V2SG-CB2-R	SOD-323	A	K	Tape Reel
BZT52C16SL-CB2-R	BZT52C16SG-CB2-R	SOD-323	A	K	Tape Reel

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

BZT52CXXXSL-CB2-R (1) Packing Type (2) Package Type (3) Lead Plating (4) Output Voltage	(1) R: Tape Reel (2) CB2: SOD-323 (3) L: Lead Free, G: Halogen Free (4) refer to MARKING INFORMATION

■ MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOD-323	5.6: 5.6V 6.2: 6.2V 16: 16V	CXXX□ Voltage Code L: Lead Free G: Halogen Free

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■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

Single phase, half wave, 60Hz, resistive or inductive load. For capacitance load, derate current by 20%.

PARAMETER		SYMBOL	RATINGS	UNIT
Forward Voltage (Note)	I_F=10mA	V_F	0.9	V
Thermal characteristics				
Power Dissipation (Note 2)		P_D	200	mW
Operating Temperature		T_J	-55~+150	°C
Storage Temperature		T_{STG}	-55~+150	°C

Note: 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.

■ ELECTRICAL CHARACTERISTICS (T_A =25°C, unless otherwise specified)

(V_F = 0.9V Max @ I_F = 10mA for all types.)

Device	Marking Code	Nominal Zener Voltage				Zener Impedance			Reverse Leakage Current (Note)		Zener Current	
		V_Z @ I_{ZT} (V)			I_{ZT}	Z_{ZT} @ I_{ZT}	Z_{ZK} @ I_{ZK}	I_{ZK}	I_R	@V_R	mA	
		MIN	TYP	MAX	mA	TYP (Ω)		mA	TYP (μA)	TYP (V)	MIN	MAX
BZT52C5V6S	5.6	5.20	5.60	6.0	5	40	400	1.0	3	2.0	-2.0	2.5
BZT52C6V2S	6.2	6.08	6.2	6.32	5	10	150	1.0	2	4.0	0.4	3.7
BZT52C16S	16	15.68	16	16.32	5	40	200	1.0	0.1	11.2	10.4	14.0

Note: Short duration pulse test used to minimize self-heating effect.

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