

**DZ23CXX**

Preliminary

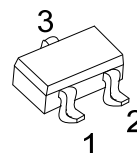
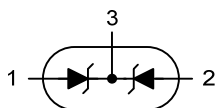
ZENER DIODE**300mW DUAL SURFACE
MOUNT ZENER DIODE****DESCRIPTION**

The UTC **DZ23CXX** is a 300mW dual surface mount zener diode, it uses UTC's advanced technology to provide customers with low reverse leakage current.

The UTC **DZ23CXX** is suitable for automatic insertion, etc.

FEATURES

* Low reverse leakage current

SYMBOL

SOT-23
(JEDEC TO-236)

ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
DZ23CXXL-AE3-R	DZ23CXXG-AE3-R	SOT-23	A	A	K	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode

	(1) Packing Type	(1) R: Tape Reel
	(2) Package Type	(2) AE3: SOT-23
	(3) Green Package	(3) G: Halogen Free and Lead Free, L: Lead Free
	(4) Output Voltage Code	(4) xx: refer to Marking Information

MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOT-23	22: 2.2V 24: 2.4V	Voltage Code ← CXX → L: Lead Free G: Halogen Free

■ **ABSOLUTE MAXIMUM RATINGS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Power Dissipation	P_D	300	mW
Junction Temperature	T_J	+150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-65 ~ +150	$^{\circ}\text{C}$

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.

■ **THERMAL DATA**

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	417	$^{\circ}\text{C/W}$

■ **ELECTRICAL CHARACTERISTICS** ($T_A=25^{\circ}\text{C}$, unless otherwise specified)

For DZ23C22

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Zener Voltage Range (Note)	V_Z	$I_{ZT}=5.0\text{mA}$	20.8		23.3	V
Minimum Reverse Voltage (Note)	V_R	$I_R=0.1\mu\text{A}$	17			V
Temperature Coefficient	T_C			+0.09		$\%/^{\circ}\text{C}$
Zener Impedance	Z_{ZT}	$f=1\text{KHz}$, $I_{ZT}=5.0\text{mA}$			55	Ω
	Z_{ZK}	$f=1\text{KHz}$, $I_{ZK}=1.0\text{mA}$			220	Ω

For DZ23C24

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Zener Voltage Range (Note)	V_Z	$I_{ZT}=5.0\text{mA}$	22.8		25.6	V
Minimum Reverse Voltage (Note)	V_R	$I_R=0.1\mu\text{A}$	18			V
Temperature Coefficient	T_C			+0.09		$\%/^{\circ}\text{C}$
Zener Impedance	Z_{ZT}	$f=1\text{KHz}$, $I_{ZT}=5.0\text{mA}$			80	Ω
	Z_{ZK}	$f=1\text{KHz}$, $I_{ZK}=1.0\text{mA}$			220	Ω

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

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