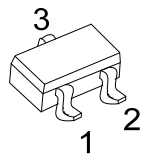
DZ23CXX **Preliminary** ***ZENER DIODE***

300mW DUAL SURFACE MOUNT ZENER DIODE



SOT-23
(JEDEC TO-236)

■ DESCRIPTION

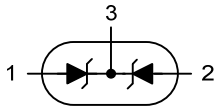
The UTC **DZ23CXX** is a 300mW dual surface mount zener diode, it uses **UTC**'s advanced technology to provide customers with low reverse leakage current.

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

■ FEATURES

* Low reverse leakage current

■ SYMBOL



■ 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

DZ23CXXG-AE3-R
- (1)Packing Type
- (2)Package Type
- (3)Green Package
- (4)Output Voltage Code

(1) R: Tape Reel
(2) AE3: SOT-23
(3) G: Halogen Free and Lead Free, L: Lead Free
(4) XX: refer to Marking Information

■ MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOT-23	15: 15V 22: 22V 24: 24V	Voltage Code ← CXX□ → L: Lead Free G: Halogen Free

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

PARAMETER	SYMBOL	RATINGS	UNIT
Power Dissipation	P_D	300	mW
Junction Temperature	T_J	+150	°C
Storage Temperature	T_{STG}	-65 ~ +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.

■ THERMAL DATA

CHARACTERISTIC	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	417	°C/W

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

Part Number	Nominal Zener Voltage (Note)		Zener Impedance		Typical Temperature Coefficient	Reverse Voltage (Note)
	V_Z @ I_{ZT} (V)		Z_{ZT} @ I_{ZT}=5.0mA	Z_{ZK} @ I_{ZK}=1.0mA	T_C (%/°C)	I_R=0.1μA
	MIN	MAX	Max (Ω)	Max (Ω)		V_R (V)
DZ23C15	13.8	15.6	30	110	+0.080	11
DZ23C22	20.8	23.3	55	220	+0.090	17
DZ23C24	22.8	25.6	80	220	+0.090	18

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