



DZ23CXX

Preliminary

ZENER DIODE

300mW DUAL SURFACE MOUNT ZENER DIODE

■ DESCRIPTION

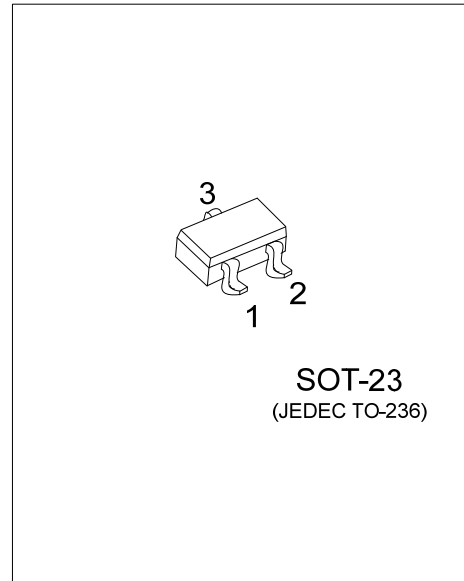
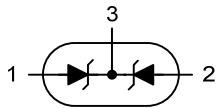
The UTC **DZ23CXX** is a 300mW dual surface mount zener diode, it uses **UTC's** advanced technology to provide customers with low reverse leakage current.

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

■ FEATURES

* Low reverse leakage current

■ SYMBOL



■ 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

<p>DZ23CXXG-AE3-R</p>	<p>(1)Packing Type (2)Package Type (3)Green Package (4)Output Voltage Code</p>	<p>(1) R: Tape Reel (2) AE3: SOT-23 (3) G: Halogen Free and Lead Free, L: Lead Free (4) XX: refer to Marking Information</p>
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■ MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING
SOT-23	15: 15V 22: 22V 24: 24V	

■ 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)

Part Number	Nominal Zener Voltage (Note)		Zener Impedance		Typical Temperature Coefficient	Reverse Voltage (Note)
	$V_Z @ I_{ZT}$ (V)		$Z_{ZT} @ I_{ZT}=5.0\text{mA}$	$Z_{ZK} @ I_{ZK}=1.0\text{mA}$	T_C ($\%/^\circ\text{C}$)	$I_R=0.1\mu\text{A}$
	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.

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