

UTC UNISONIC TECHNOLOGIES CO., LTD

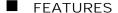
AZ23C **Preliminary DIODE**

VOLTAGE REGULATOR DOUBLE DIODES

DESCRIPTION

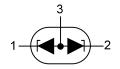
The UTC AZ23C is a voltage regulator double diode, it uses UTC's advanced technology to provide the customers with low leakage current.

The UTC AZ23C is suitable for ESD and surge protection.



* Low leakage current

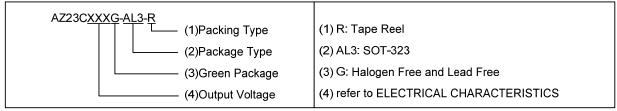
SYMBOL





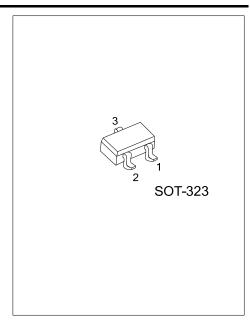
Ordering Number	Dookogo	Pin Assignment			Dooking	
Ordering Number	Package	1	2	3	Packing	
AZ23CXXXG-AL3-R	SOT-323	K	K	Α	Tape Reel	

Pin Assignment: A: Anode K: Cathode Note:



MARKING INFORMATION

PACKAGE	VOLTAGE CODE	MARKING				
SOT-323	5.1: 5.1V	ZXXXG → Voltage Code				



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

PARAMETER	TST CONDITIONS	SYMBOL	RATINGS	UNIT
Continuous Forward Current		l _F	200	mA
On-Repetitive Peak Reverse Current	t _P =100us,square wave, T _A =25°C, prior to surge	I _{ZSM}	See TABLE 1	
Total Dayyar Dissination (Note 1)	T _A =25°C, 2 diodes loaded	Ь	350	mW
Total Power Dissipation (Note 1)	T _A =25°C, 1 diode loaded	P _D	180	mW
Non-Repetitive Peak Reverse Dissipation	t _P =100us, square wave, T _A =25°C, prior to surge	P _{ZSM}	40	W
Operating Junction Temperature		TJ	150	°C
Storage Temperature		T _{STG}	-65~+150	°C

Notes: 1. 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.

2. Device mounted on an FR4 printed-circuit board

■ THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TST CONDITIONS	RATINGS	UNIT
lumation to Ameleiant	0	2 diodes loaded (Note 2)	355	K/W
Junction to Ambient	₽JA	1 diodes loaded (Note 2)	680	K/W

Notes: 1. Solder points on cathode tabs.

2. Device mounted on a FR4 printed-circuit board.

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

Device	Marking Code	Nominal Zener Voltage			Max Zener Impedance			Diode CAP. C _d (pF)	Non-Rep etitive Peak Reverse Curren I _{ZSM} (A)	Max Reverse Leakage Current (μA)		
		V _Z @ I _{ZT} (V)			ZZT @ IZT ZZT @ IZT		f=1 MHz, V _R =0V	t _p =100µs T _A =25°C	IR @ VR			
		MIN	TYP	MAX	(Ω)	(mA)	(Ω)	(mA)	MAX	MAX	(uA)	(V)
AZ23C5V1	5.1	4.8	5.1	5.4	480	1	60	5	300	6.0	2	2

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

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