

UNISONIC TECHNOLOGIES CO., LTD

BAT721X

Preliminary

DIODE

SCHOTTKY BARRIER DIODES

DESCRIPTION

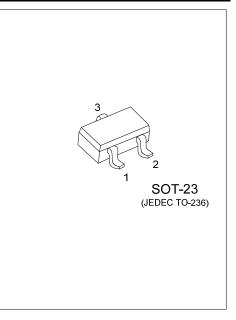
The UTC **BAT721X** are schottky barrier diodes, it uses UTC's advanced technology to provide customers with low forward voltage drop and ultra high switching speed, etc.

The UTC **BAT721X** is suitable for applications such as ultra high-speed switching, protection circuits and voltage clamping.

FEATURES

* Low forward voltage drop

* Ultra high switching speed



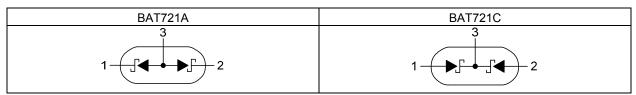
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Booking
Lead Free	Halogen Free	Package	1	2	3	Packing
BAT721AL-AE3-R	BAT721AG-AE3-R	SOT-23	K1	K2	A1A2	Tape Reel
BAT721CL-AE3-R	BAT721CG-AE3-R	SOT-23	A1	A2	K1K2	Tape Reel
Nata: Din Assimumant: A: Anada	K. Cathada					

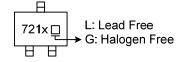
Note: Pin Assignment: A: Anode K: Cathode

e, L: Lead Free
ON AND SYMBOL

DIODE CONFIGURATION AND SYMBOL



MARKING



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

PARAMETER	SYMBOL	RATINGS	UNIT	
Continuous Reverse Voltage	V _R	40	V	
Continuous Forward Current	I _F	200	mA	
Non-Repetitive Peak Forward Current (half sine wave; JEDEC method; tp = 8.3 ms)	I _{FSM}	1000	mA	
Operating Junction Temperature	TJ	+125	°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 CHARACTERISTICS

PARAMETER	SYMBOL	RATINGS	UNIT		
Junction to Ambient	θ _{JA}	500	K/W		

Notes: Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Continuous Forward Voltage (Note 1)	VF	I _F =10mA			300	mV
		I _F =100mA			420	mV
		I _F =200mA			550	mV
Continuous Reverse Current (Note 1)	R	V _R =30V			15	μA
		V _R =30V, T _J =100°C			3	mΑ
Diode Capacitance (Note 2)	Cd	V _R =0V, f=1MHz		40	50	pF

Notes: 1. Pulse Test: Pulse Width = 300μ s, Duty Cycle $\leq 2.0\%$.

2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.



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