

UTC UNISONIC TECHNOLOGIES CO., LTD

BAS40

SCHOTTKY BARRIER DIODES

DESCRIPTION

The UTC BAS40 is schottky barrier diode, it uses UTC's advanced technology to provide customers with low forward voltage, etc.

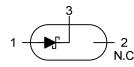
The UTC BAS40 is suitable for ultra high-speed switching, protection circuits, voltage clamping and blocking diodes.

FEATURES

* Low forward voltage

- * Low diode capacitance
- * Guard ring protected

SYMBOL

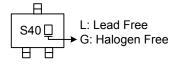


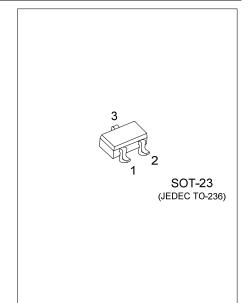
ORDERING INFORMATION

Ordering Number		Daakaga	Pin Assignment			Dooking	
Lead Free	Halogen Free	Package	1	2	3	Packing	
BAS40L-AE3-R	BAS40G-AE3-R	SOT-23	А	NC	К	Tape Reel	
Note: Pin Assignment: A: Anode K: Cathode NC: No Connection							
BAS40G-AE3-R		(1) R: Tape Ree	el				

(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

MARKING





DIODE

■ ABSOLUTE MAXIMUM RATINGS

PARAMETER	SYMBOL	RATINGS	UNIT
Continuous Reverse Voltage	V _R	40	V
Continuous Forward Current	l _F	120	mA
Non-Repetitive Peak Forward Current t _p <10ms	I _{FSM}	200	mA
Operating Junction Temperature	TJ	+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 CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNIT	
Junction to Ambient	θ _{JA}	330	K/W	

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
	V _F	I _F =1mA			380	mV
Forward Voltage		I _F =10mA			500	mV
		I _F =40mA			1	V
Deverse Current (Nete)	I _R	V _R =30V			1	μA
Reverse Current (Note)		V _R =40V			10	μA
Diode Capacitance	CD	f=1MHz, V _R =0			5	pF

Note: Pulse test: t_p =300µs; δ =0.02.



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