



BAP51-03

Preliminary

DIODE

SILICON PIN DIODES

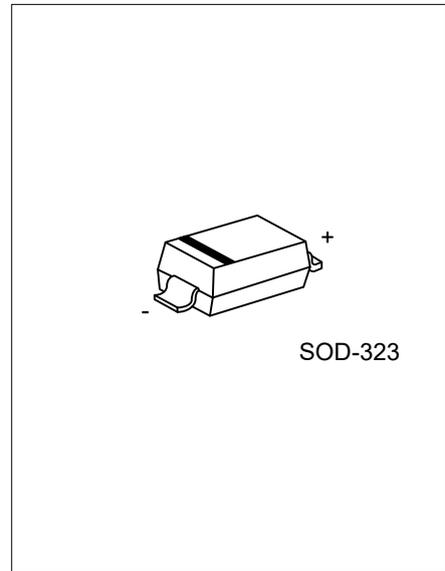
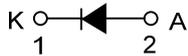
DESCRIPTION

The UTC BAP51-03 is General-purpose PIN diode in an SOD-323 small plastic SMD package.

FEATURES

- * Low diode capacitance: maximum 1.05 pF
- * Low diode forward resistance: max. 0.7 Ω

SYMBOL



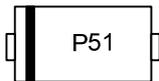
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
BAP5-03L-CB2-R	BAP51-03G-CB2-R	SOD-323	K	A	Tape Reel

Note: Pin Assignment: K: Cathode A: Anode

<p>BAP51-03G-CB2-R</p> <ul style="list-style-type: none"> (1) Packing Type (2) Package Type (3) Green Package 	<ul style="list-style-type: none"> (1) R: Tape Reel (2) CB2: SOD-323 (3) G: Halogen Free and Lead Free, L: Lead Free
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNITS
Reverse Voltage	V_R	50	V
Forward Current	I_F	50	mA
Power Dissipation ($T_J=90^\circ\text{C}$)	P_D	500	mW
Junction Temperature	T_J	-65 ~ +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

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ_{JC}	250	$^\circ\text{C}/\text{W}$

■ ELECTRICAL CHARACTERISTICS ($T_J=25^\circ\text{C}$, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Forward Voltage	V_F	$I_F=50\text{mA}$		0.95	1.1	V
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	50			V
Reverse Current	I_R	$V_R=50\text{V}$			100	nA
Diode Capacitance	C_d	$V_R=0\text{V}$, $f=1\text{MHz}$		0.4		pF
		$V_R=1\text{V}$, $f=1\text{MHz}$		0.32	0.55	pF
		$V_R=5\text{V}$, $f=1\text{MHz}$		0.28	0.35	pF

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