



BAP70-02

Preliminary

DIODE

SILICON PIN DIODES

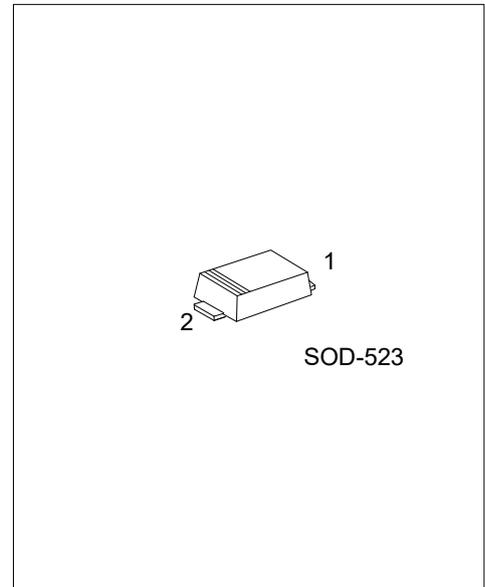
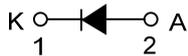
DESCRIPTION

The UTC **BAP70-02** is General-purpose PIN diode in an SOD-523 small plastic SMD package.

FEATURES

- * High voltage, current controlled RF resistor for attenuators and switches
- * Low diode capacitance
- * Very low series inductance

SYMBOL



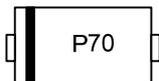
ORDERING INFORMATION

Ordering Number		Package	Pin Assignment		Packing
Lead Free	Halogen Free		1	2	
BAP70-02L-CC2-R	BAP70-02G-CC2-R	SOD-523	K	A	Tape Reel

Note: Pin Assignment: K: Cathode A: Anode

<p>BAP70-02G-CC2-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) CC2: SOD-523 (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	100	mA
Power Dissipation ($T_{SP}=90^{\circ}\text{C}$)	P_D	250	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}	500	$^{\circ}\text{C}/\text{W}$

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Voltage	V_R	$I_R=10\mu\text{A}$	50			V
Reverse Current	I_R	$V_R=50\text{V}$			100	nA
Forward Voltage	V_F	$I_F=50\text{mA}$		0.9	1.1	V
Diode Capacitance	C_d	$V_R=0\text{V}$, $f=1\text{MHz}$		680		fF
		$V_R=1\text{V}$, $f=1\text{MHz}$		500		fF
		$V_R=5\text{V}$, $f=1\text{MHz}$		390		fF

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