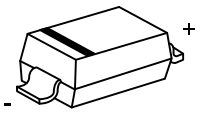
BAP64-03

DIODE

SILICON PIN DIODES



SOD-323

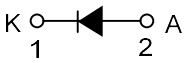
■ DESCRIPTION

The UTC **BAP64-03** is General-purpose PIN diode in an SOD-323 small plastic SMD package.

■ FEATURES

* High voltage, current controlled
* RF resistor for RF attenuators and switches
* Low diode capacitance
* Low diode forward resistance
* Low series inductance
* For applications up to 3 GHz
* Green & Pb Free

■ SYMBOL



■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment		Packing
		1	2	
BAP64-03G-CB2-R	SOD-323	K	A	Tape Reel

Note: Pin Assignment: K: Cathode A: Anode

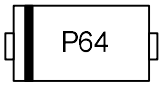
BAP64-03G-CB2-R

(1)Packing Type — (1) R: Tape Reel

(2)Package Type — (2) CB2: SOD-323

(3)Green Package — (3) G: Halogen Free and Lead Free

■ MARKING



Copyright © 2026 Unisonic Technologies Co., Ltd

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

PARAMETER	SYMBOL	RATINGS	UNITS
Reverse Voltage	V_R	175	V
Forward Current	I_F	100	mA
Power Dissipation (T_J=90°C)	P_D	500	mW
Junction Temperature	T_J	-65 ~ +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 DATA

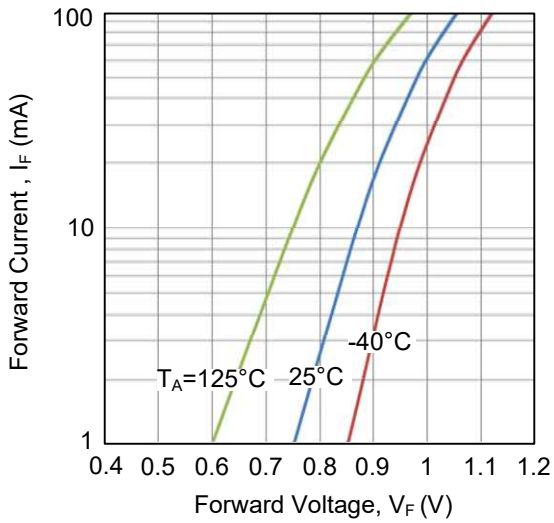
PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Case	θ_{JC}	250	°C/W

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

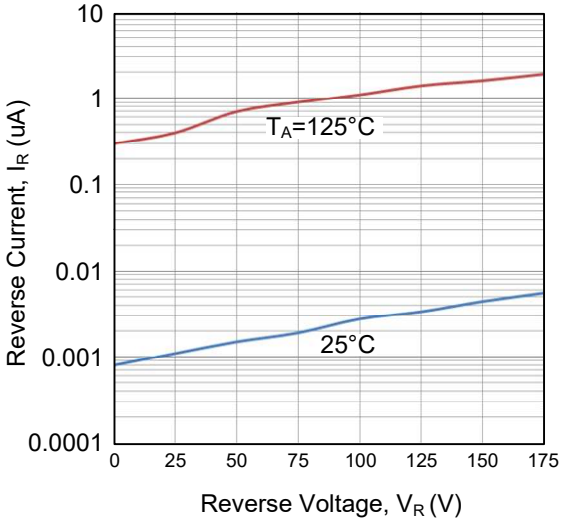
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Reverse Voltage	V_R	I_R=10μA	175			V
Reverse Current	I_R	V_R=175V			10	μA
		V_R=20V			1	μA
Forward Voltage	V_F	I_F=50mA		0.9	1.1	V
Diode Capacitance	C_d	V_R=0V, f=1MHz		0.36		pF
		V_R=1V, f=1MHz		0.3		pF
		V_R=5V, f=1MHz		0.26		pF

■ TYPICAL CHARACTERISTICS

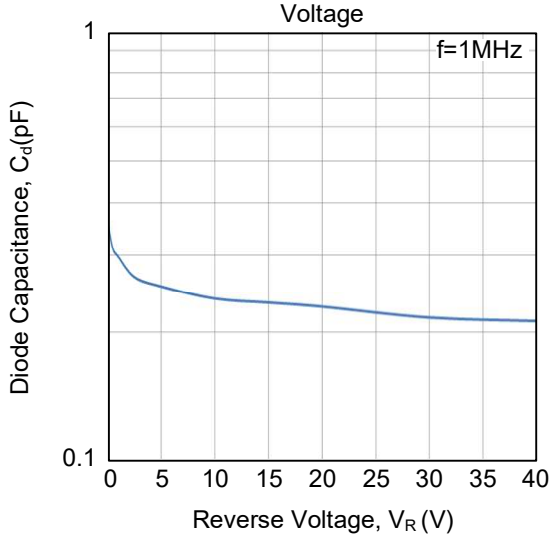
Forward Current vs. Forward Voltage



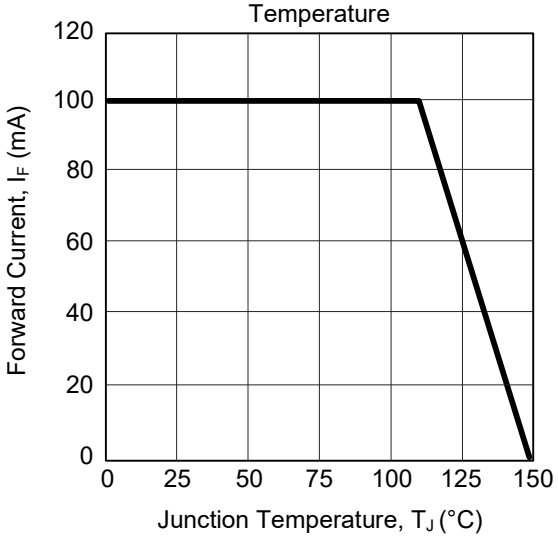
Reverse Current vs. Reverse Voltage



Diode Capacitance vs. Reverse Voltage



Forward Current vs. Junction Temperature



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. UTC reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.