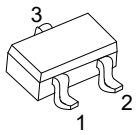
SILICON PIN DIODES



SOT-23
(JEDEC TO-236)

■ DESCRIPTION

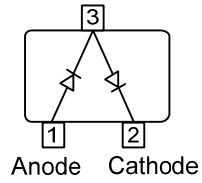
The UTC **BAP64-04** is General-purpose PIN diode in an SOD-323 small plastic SMD package.

■ 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

■ SYMBOL

Common Cathode



■ ORDERING INFORMATION

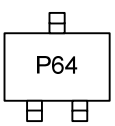
Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
BAP64-04L-AE3-R	BAP64-04G-AE3-R	SOT-23	A	K	K	Tape Reel

Note: Pin Assignment: A: Anode K: Cathode K: Common Cathode

BAP64-04G-AE3-R

(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



■ 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	250	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}	500	°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		0.86		pF
		V_R=1V, f=1MHz		0.68		pF
		V_R=5V, f=1MHz		0.55		pF