

#### **Features**

- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Low Diode Capacitance
- · Low Diode Forward Resistance
- Halogen Free. "Green" Device (Note 1)

## **Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	$V_R$	175	V
Forward Current	I <sub>F</sub>	100	mA
Power Dissipation(T <sub>A</sub> =90°C)	P <sub>D</sub>	250	mW

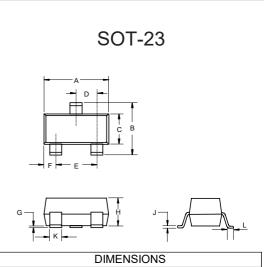
MCC Part Number	Device Marking
BAP64-04	4K
BAP64-05	5K
BAP64-06	6K

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# BAP64-04 BAP64-05 BAP64-06

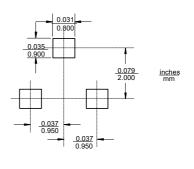
Pin Configuration

# General Purpose Pin Diodes 250mW



DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.012	0.020	0.30	0.51	
L	0.007	0.020	0.20	0.50	

#### Suggested Solder Pad Layout





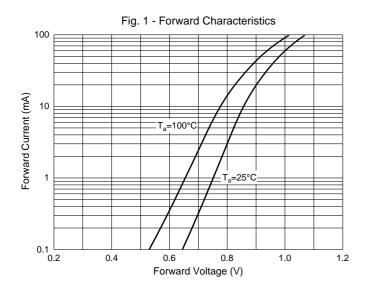
# Electrical Characteristics @ 25°C Unless Otherwise Specified

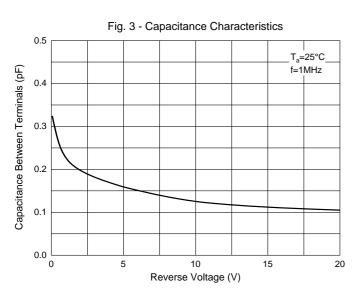
Parameter	Symbol	Min.	Тур	Max.	Conditions
Reverse Voltage Leakage Current	I <sub>R</sub>			10μA 1.0μA	V <sub>R</sub> =175V V <sub>R</sub> =20V
Forward Voltage	V <sub>F</sub>			1.1V	I <sub>F</sub> =50mA
	C <sub>d1</sub>		0.52pF		V <sub>R</sub> =0V,f=1MHz
Diode Capacitance	Cd2		0.37pF	0.5pF	V <sub>R</sub> =1V,f=1MHz
	C <sub>d</sub> 3		0.23pF	0.35pF	V <sub>R</sub> =20V,f=1MHz
	R <sub>D1</sub>		20Ω	40Ω	I <sub>F</sub> =0.5mA, f=100MHz
Diode Forward Resistance	R <sub>D2</sub>		10Ω	20Ω	I <sub>F</sub> =1.0mA, f=100MHz
	R <sub>D3</sub>		2.0Ω	3.8Ω	I <sub>F</sub> =10mA, f=100MHz
	R <sub>D4</sub>		0.7Ω	1.35Ω	I <sub>F</sub> =100mA, f=100MHz
Charge carrier life time	T <sub>L</sub>		1.55µS		When switched from $I_{\text{F}}\text{=}10\text{mA}$ to $I_{\text{R}}\text{=}6\text{mA};$ $R_{\text{L}}\text{=}100\Omega;\text{measured at }I_{\text{R}}\text{=}3\text{mA}$
Series inductance	L <sub>S</sub>		1.4nH		I <sub>F</sub> =100mA,f=100MHz

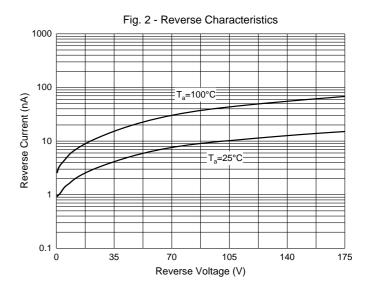
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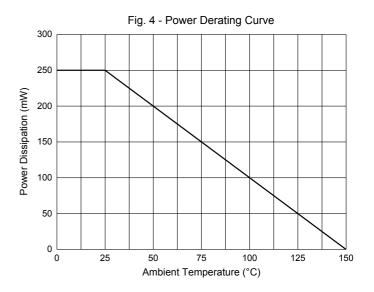


#### **Curve Characteristics**











### **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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