

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 _F	100	mA
Power Dissipation(T _A =90°C)	P _D	250	mW

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

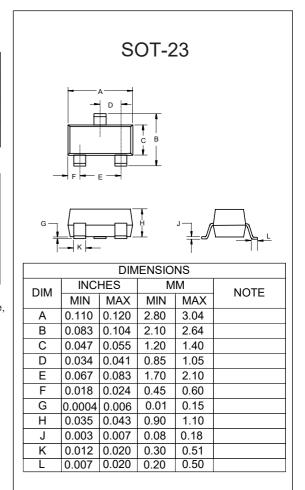
BAP64-05

Pin Configuration

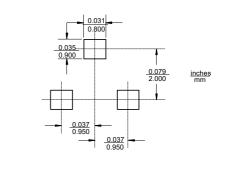
-D

BAP64-06

General Purpose Pin Diodes 250mW



Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	Тур	Max.	Conditions
Reverse Voltage Leakage Current	I _R			10μΑ 1.0μΑ	V _R =175V V _R =20V
Forward Voltage	V _F			1.1V	I _F =50mA
	Cd1		0.52pF		V _R =0V,f=1MHz
Diode Capacitance	Cd2		0.37pF	0.5pF	V _R =1V,f=1MHz
	Cd3		0.23pF	0.35pF	V _R =20V,f=1MHz
	R _{D1}		20Ω	40Ω	I _F =0.5mA, f=100MHz
Diode Forward Resistance	R _{D2}		10Ω	20Ω	I _F =1.0mA, f=100MHz
	Rd3		2.0Ω	3.8Ω	I _F =10mA, f=100MHz
	R _{D4}		0.7Ω	1.35Ω	I _F =100mA, f=100MHz
Charge carrier life time	TL		1.55µS		When switched from $I_{\rm F}{=}10mA$ to $I_{\rm R}{=}6mA;$ $R_{\rm L}{=}100\Omega;measured at I_{\rm R}{=}3mA$
Series inductance	L _S		1.4nH		I _F =100mA,f=100MHz



Curve Characteristics

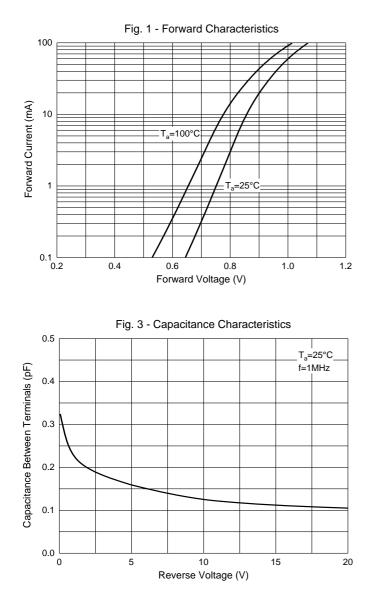


Fig. 2 - Reverse Characteristics T_a=100°C Reverse Current (nA) T_a=25°C 0.1 Reverse Voltage (V) Fig. 4 - Power Derating Curve Power Dissipation (mW)

Ambient Temperature (°C)



Ordering Information

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

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