



Micro Commercial Components 130 W Cochran St, Unit B Simi Valley, CA 93065 Tel:818-701-4933 BAP64-04 BAP64-05 BAP64-06

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

General Purpose Pin Diodes 250mW

Maximum Ratings @ 25°C Unless Otherwise Specified

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
Junction and Storage temperature	T _j , P _{stg}	-65~+150	$^{\circ}\!\mathbb{C}$
Thermal Resistance Junction to Ambient	RthJA	500	°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

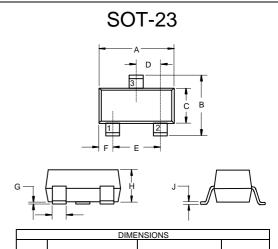
Parameter	Symbol	Min.	TYP	Max.	Unit	Conditions
Reverse Voltage Leakage Current	I _R			10 1.0	μΑ	V _R =175V V _R =20V
Forward voltage	V_{F}			1.1	V	I _F =50mA
	C_{d1}		0.52		pF	V _R =0V,f=1MHz
Diode capacitance	C_{d2}		0.37	0.5	pF	V _R =1V,f=1MHz
	C_{d3}		0.23	0.35	pF	V _R =20V,f=1MHz
Diode forward	r _{D1}		20	40	Ω	I _F =0.5mA, f=100MHz
	r_{D2}		10	20	Ω	I _F =1mA , f=100MHz
resistance	r_{D3}		2.0	3.8	Ω	I _F =10mA , f=100MHz
	r_{D4}		0.7	1.35	Ω	I _F =100mA , f=100MHz
Charge carrier life time	τ_{L}		1.55		μS	When switched from $I_{F}{=}10\text{mA}$ to $I_{R}{=}6\text{mA}$; $R_{L}{=}100~\Omega$;measured at $I_{R}{=}3\text{mA}$
Series inductance	Ls		1.4		nΗ	I _F =100mA,f=100MHz

Pin Configuration

BAP64-04 Marking: 4K BAP64-05 Marking: 5K

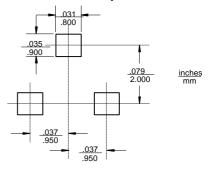


BAP64-06 Marking: 6K



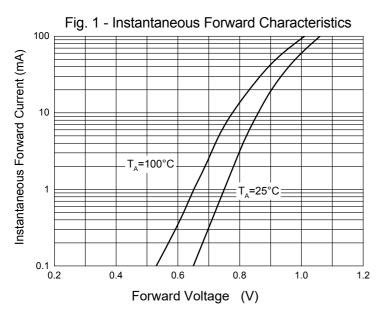
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

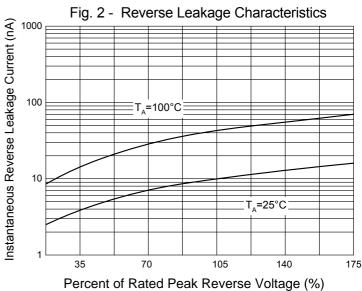
Suggested Solder Pad Layout

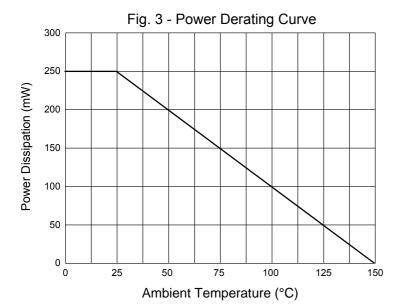




Typical Characteristics









Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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