Micro Commercial Components

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

BAP64-04
BAP64-05
BAP64-06

General Purpose Pin Diodes 250mW

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

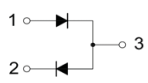
Maximum Ratings @ 25°C Unless Otherwise Specified

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	℃
Thermal Resistance Junction to Ambient	R_{thJA}	500	°C/W

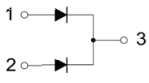
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	TYP	Max.	Unit	Conditions
Reverse Voltage Leakage Current	I_R			10 1.0	μA	V_R=175V V_R=20V
Forward voltage	V_F			1.1	V	I_F=50mA
Diode capacitance	C_{d1} C_{d2} C_{d3}		0.52 0.37 0.23	 0.5 0.35	pF pF pF	V_R=0V,f=1MHz V_R=1V,f=1MHz V_R=20V,f=1MHz
Diode forward resistance	r_{D1} r_{D2} r_{D3} r_{D4}		20 10 2.0 0.7	40 20 3.8 1.35	Ω Ω Ω Ω	I_F=0.5mA, f=100MHz I_F=1mA , f=100MHz I_F=10mA , f=100MHz I_F=100mA , f=100MHz
Charge carrier life time	τ_L		1.55		μS	When switched from I_F=10mA to I_R=6mA; R_L=100Ω ;measured at I_R=3mA
Series inductance	Ls		1.4		nH	I_F=100mA,f=100MHz

Pin Configuration



BAP64-04
Marking: 4K



BAP64-05
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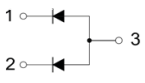
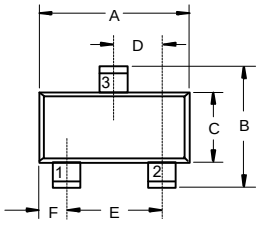


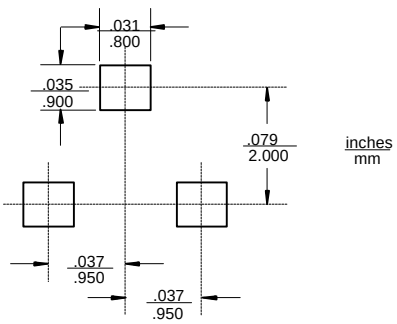
BAP64-06
Marking: 6K

SOT-23



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

Suggested Solder Pad Layout



Typical Characteristics

Fig. 1 - Instantaneous Forward Characteristics

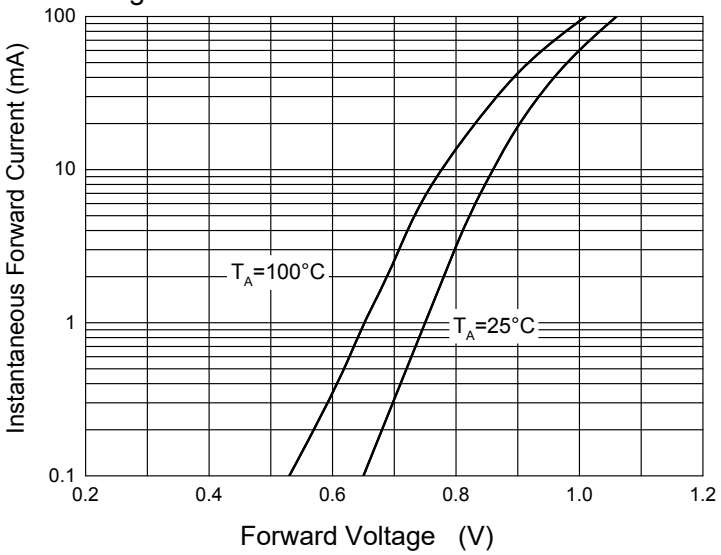


Fig. 2 - Reverse Leakage Characteristics

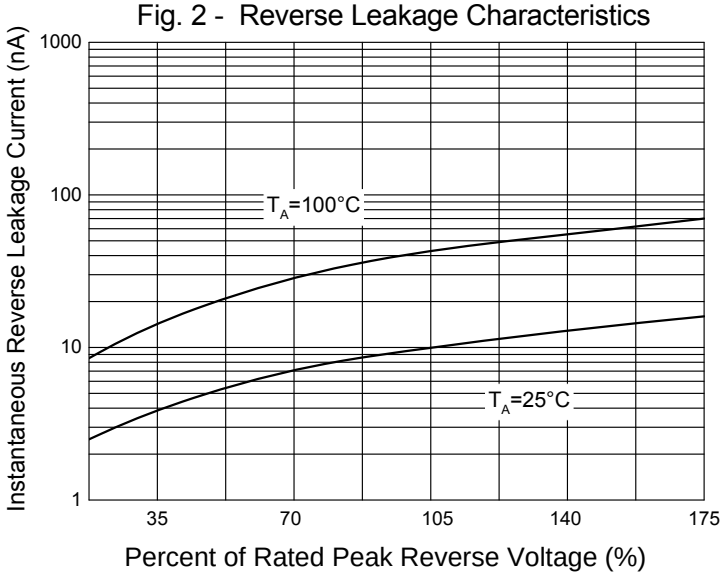
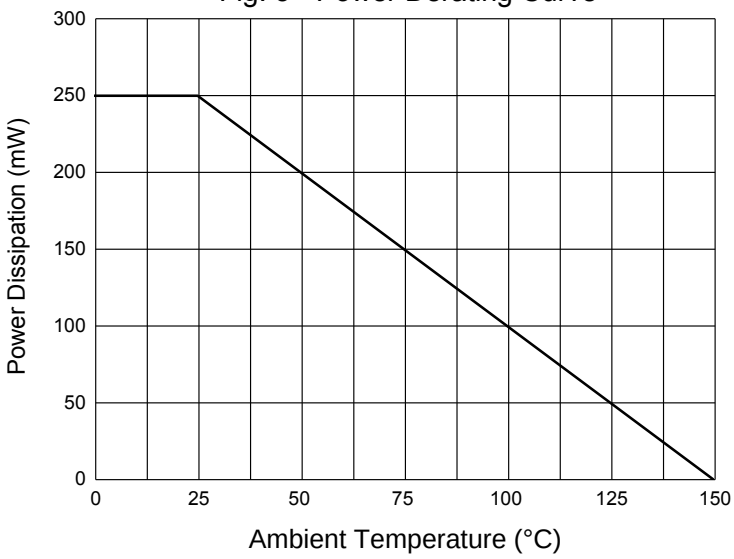


Fig. 3 - Power Derating Curve



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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