Micro Commercial Components

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

BAP64-04W
BAP64-05W
BAP64-06W

General Purpose Pin Diodes 200mW

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

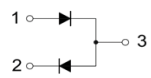
Maximum Ratings @ 25°C Unless Otherwise Specified

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	200	mW
Junction and Storage temperature	T_j, P_{stg}	-55~+150	℃
Thermal Resistance Junction to Ambient	R_{thJA}	625	°C/W

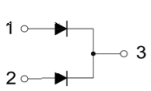
Electrical Characteristics @ 25°C Unless Otherwise Specified

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 **BAP64-04W/06W** **BAP64-05W**	**Ls**		 1.6 1.4		 nH nH	 I_F=100mA,f=100MHz I_F=100mA,f=100MHz

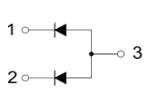
Pin Configuration



BAP64-04W
Marking: 4W

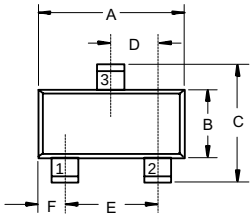


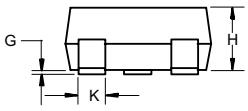
BAP64-05W
Marking: 5W



BAP64-06W
Marking: 6W

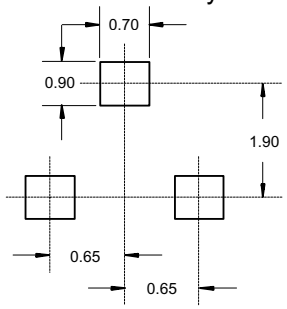
SOT-323





DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.071	.087	1.80	2.20	
B	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	0.30	0.40	
G	.000	.004	0.00	0.10	
H	.035	.039	0.90	1.00	
J	.004	.010	0.10	0.25	
K	.006	.016	0.15	0.40	

Suggested Solder Pad Layout



Typical Characteristics

Fig. 1 - Instantaneous Forward Characteristics

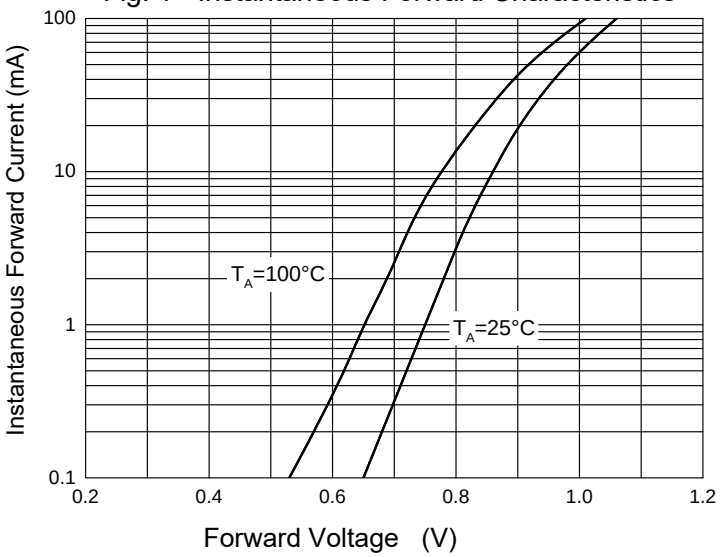


Fig. 2 - Reverse Leakage Characteristics

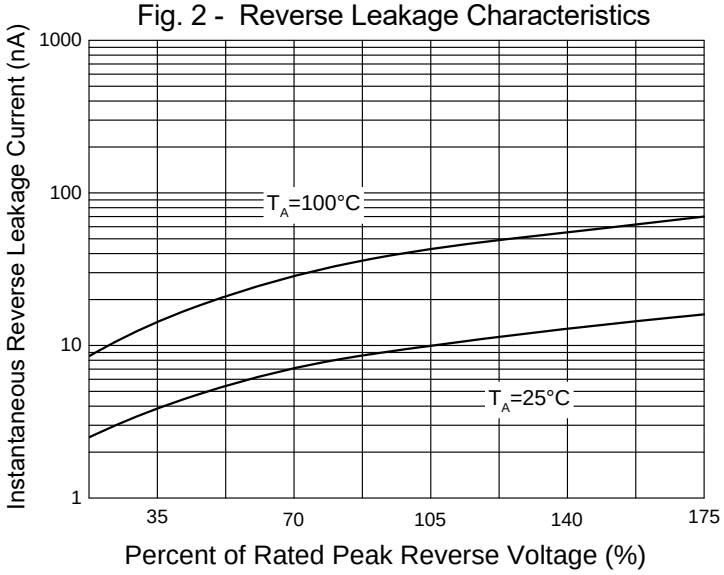
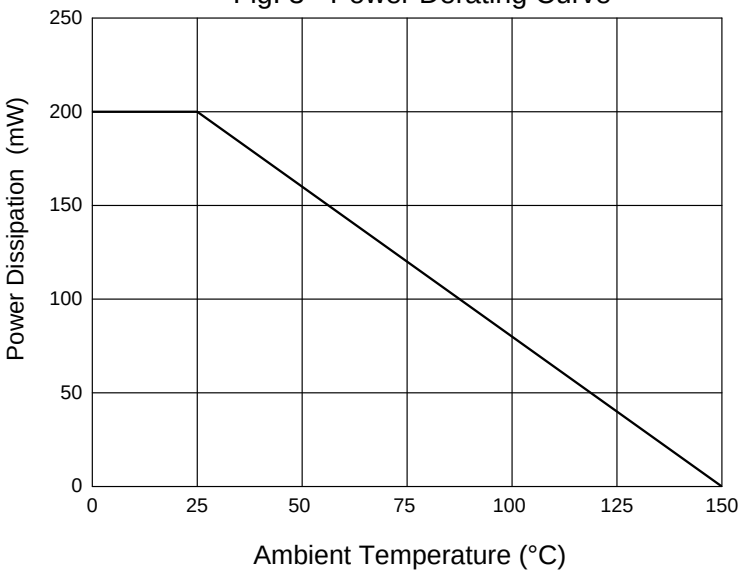


Fig. 3 - Power Derating Curve



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Ordering Information

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

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