



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

## 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

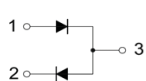
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	$V_R$	175	V
Forward Current	$I_F$	100	mA
Power Dissipation( $T_A=90^\circ\text{C}$ )	$P_D$	200	mW
Junction and Storage temperature	$T_j, P_{stg}$	-55~+150	°C
Thermal Resistance Junction to Ambient	$R_{thJA}$	625	°C/W

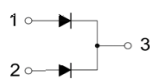
## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	TYP	Max.	Unit	Conditions
Reverse Voltage Leakage Current	$I_R$			10 1.0	$\mu\text{A}$	$V_R=175\text{V}$ $V_R=20\text{V}$
Forward voltage	$V_F$			1.1	V	$I_F=50\text{mA}$
Diode capacitance	$C_{d1}$		0.52		pF	$V_R=0\text{V}, f=1\text{MHz}$
	$C_{d2}$		0.37	0.5	pF	$V_R=1\text{V}, f=1\text{MHz}$
	$C_{d3}$		0.23	0.35	pF	$V_R=20\text{V}, f=1\text{MHz}$
Diode forward resistance	$r_{D1}$		20	40	$\Omega$	$I_F=0.5\text{mA}, f=100\text{MHz}$
	$r_{D2}$		10	20	$\Omega$	$I_F=1\text{mA}, f=100\text{MHz}$
	$r_{D3}$		2.0	3.8	$\Omega$	$I_F=10\text{mA}, f=100\text{MHz}$
	$r_{D4}$		0.7	1.35	$\Omega$	$I_F=100\text{mA}, f=100\text{MHz}$
Charge carrier life time	$\tau_L$		1.55		$\mu\text{S}$	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				nH	$I_F=100\text{mA}, f=100\text{MHz}$
					nH	$I_F=100\text{mA}, f=100\text{MHz}$

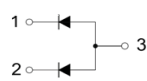
Pin Configuration



BAP64-04W  
Marking: 4W



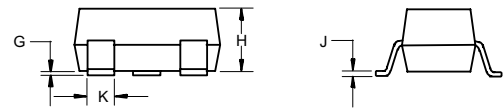
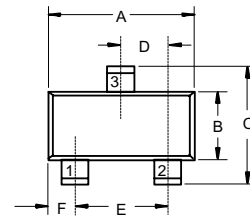
BAP64-05W  
Marking: 5W



BAP64-06W  
Marking: 6W

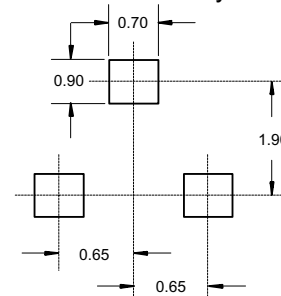
## General Purpose Pin Diodes 200mW

### SOT-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
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

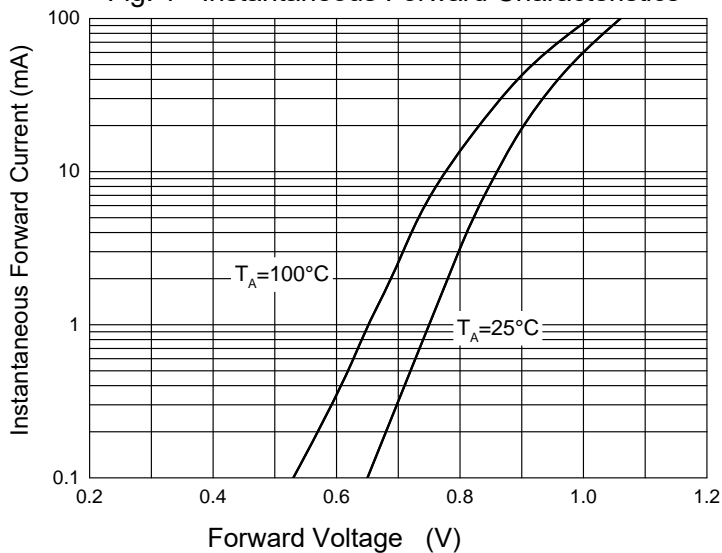


Fig. 2 - Reverse Leakage Characteristics

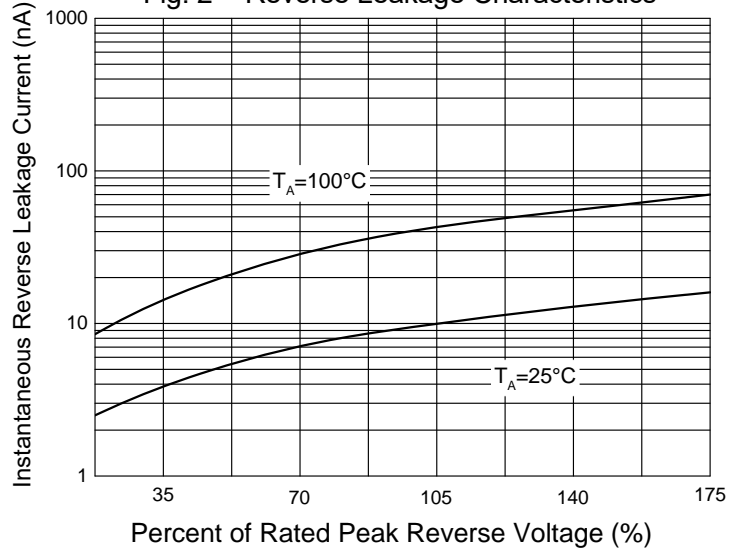
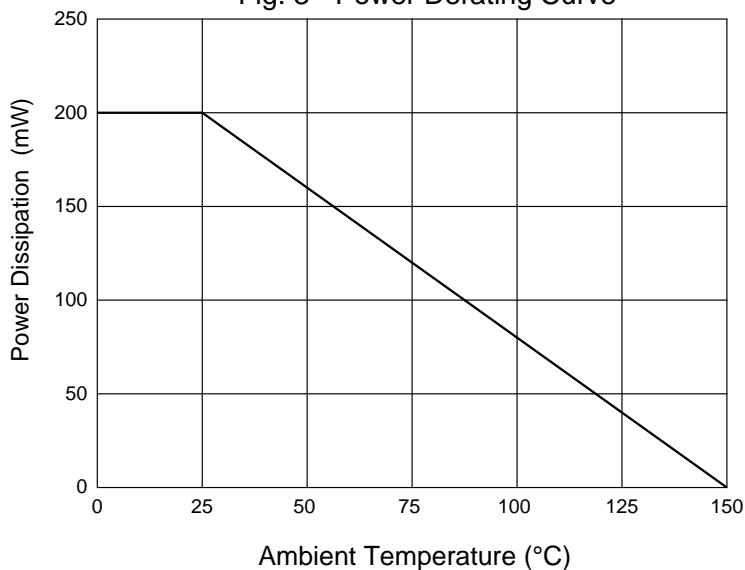


Fig. 3 - Power Derating Curve





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## Ordering Information

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

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