



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

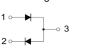
# Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	$V_R$	175	V
Forward Current	I <sub>F</sub>	100	mA
Power Dissipation(T <sub>A</sub> =90°C)	$P_D$	250	mW
Junction and Storage temperature	T <sub>j</sub> , P <sub>stg</sub>	-65~+150	$^{\circ}$
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 <sub>R</sub>			10 1.0	μA	V <sub>R</sub> =175V V <sub>R</sub> =20V
Forward voltage	$V_{F}$			1.1	٧	I <sub>F</sub> =50mA
	$C_{d1}$		0.52		pF	V <sub>R</sub> =0V,f=1MHz
Diode capacitance	$C_{d2}$		0.37	0.5	pF	V <sub>R</sub> =1V,f=1MHz
	$C_{d3}$		0.23	0.35	pF	V <sub>R</sub> =20V,f=1MHz
Diode forward	$r_{D1}$		20	40	Ω	I <sub>F</sub> =0.5mA, f=100MHz
	$r_{D2}$		10	20	Ω	I <sub>F</sub> =1mA , f=100MHz
resistance	$r_{D3}$		2.0	3.8	Ω	I <sub>F</sub> =10mA , f=100MHz
	$r_{D4}$		0.7	1.35	Ω	I <sub>F</sub> =100mA , f=100MHz
Charge carrier life time	τι		1.55		μS	When switched from $I_F$ =10mA to $I_R$ =6mA; $R_L$ =100 $\Omega$ ; measured at $I_R$ =3mA
Series inductance	Ls		1.4		nΗ	I==100mA,f=100MHz

### Pin Configuration







BAP64-04 Marking: 4K

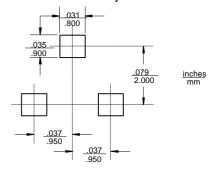
BAP64-05 Marking: 5K BAP64-06 Marking: 6K

# General Purpose Pin Diodes 250mW

# SOT-23

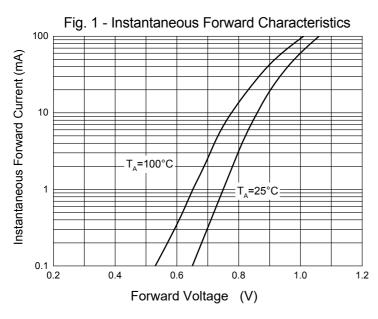
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

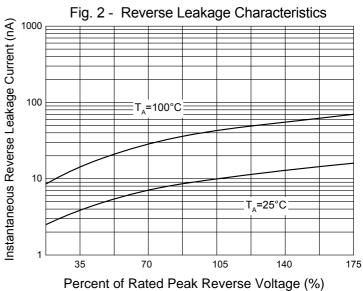
### Suggested Solder Pad Layout

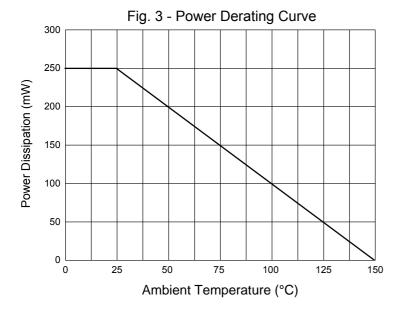




# **Typical Characteristics**









## **Ordering Information**

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

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