

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 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

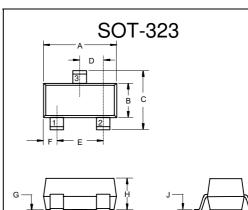
Maximum Ratings @25°C Unless Otherwise Specified

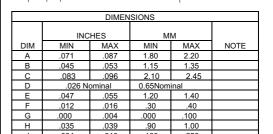
Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	V_R	175	V
Forward Current	I _F	100	mA
Power Dissipation(T _A =90°C)	P_D	200	mW
Junction and Storage temperature	T _j , P _{stg}	-55~+150	${\mathbb C}$
Thermal Resistance Junction to Ambient	RthJA	625	°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

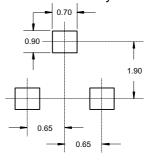
I _R			10	^	V _R =175V
Vr					
V۲			1.0	uA	V _R =20V
۷F			1.1	>	I _F =50mA
C_{d1}		0.52		pF	V _R =0V,f=1MHz
C_{d2}		0.37	0.5	pF	V _R =1V,f=1MHz
C_{d3}		0.23	0.35	pF	V _R =20V,f=1MHz
r_{D}		20	40	Ω	I _F =0.5mA, f=100MHz
r_D		10	20	Ω	I _F =1mA , f=100MHz
r_D		2	3.8	Ω	I _F =10mA , f=100MHz
r_D		0.7	1.35	Ω	I _F =100mA , f=100MHz
					when switched from
$\tau_{\scriptscriptstyle L}$		1.55		μS	l _F =10mAtok=6mA;R∟=
					100 Ω ;measured at I _R =3mA
Ls		1.6		I T	I=100mA, f=100MHz I=100mA, f=100MHz
	$\begin{array}{c} C_{d1} \\ C_{d2} \\ C_{d3} \\ \hline r_D \\ \hline r_D \\ \hline r_D \\ \end{array}$	C _{d1} C _{d2} C _{d3} r _D r _D r _D r _D	$\begin{array}{c cccc} C_{d1} & 0.52 \\ C_{d2} & 0.37 \\ C_{d3} & 0.23 \\ r_D & 20 \\ r_D & 10 \\ r_D & 2 \\ r_D & 0.7 \\ \end{array}$	C _{d1} 0.52	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

General Purpose Pin Diodes 200mW



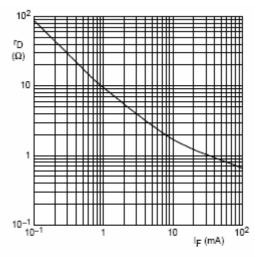


Suggested Solder Pad Layout



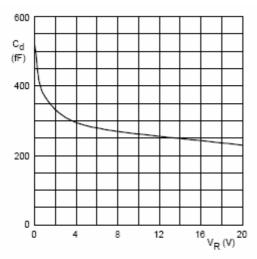


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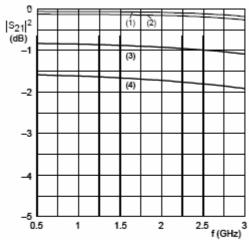
f = 100 MHz; T_J = 25 °C.

Forward resistance as a function of forward current; typical values.



f = 1 MHz; T_J = 25 °C.

Diode capacitance as a function of reverse voltage; typical values.

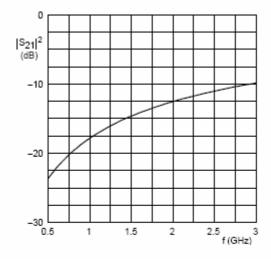


- (1) I_F = 100 mA.
- (3) I_F = 1 mA
- !) I_F = 10 mA.
- (4) I_F = 0.5 mA.

Diode inserted in series with a 50 Ω stripline circuit and biased via the analyzer Tee network.

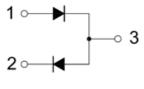
T_{amb} = 25 °C.

Insertion loss ($|S_{21}|^2$) of the diode as a function of frequency; typical values.

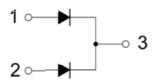


Diode zero biased and inserted in series with a 50 Ω stripline circuit. T_{amb} = 25 °C.

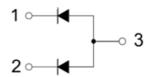
Isolation (|S₂₁|²) of the diode as a function of frequency; typical values.



BAP64-04W MARKING:4W



BAP64-05W MARKING:5W



BAP64-06W MARKING:6W



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Ordering Information

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

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