



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!



Contact us

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BAP51-02

General Purpose Pin Diodes 715mW

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
- MARKING: A5

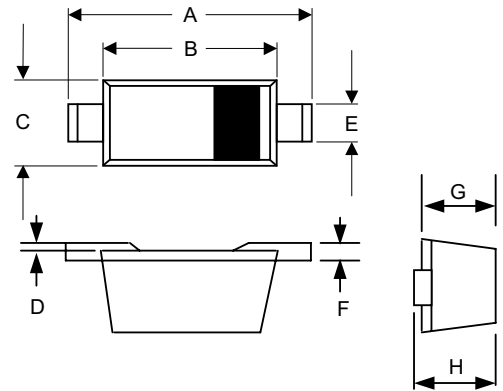
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	V_R	60	V
Forward Current	I_F	50	mA
Power Dissipation ($T_A=90^\circ\text{C}$)	P_D	715	mW
Junction and Storage temperature	T_j, P_{stg}	-65~+150	°C
Thermal Resistance Junction to solder point	R_{thJs}	85	K/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

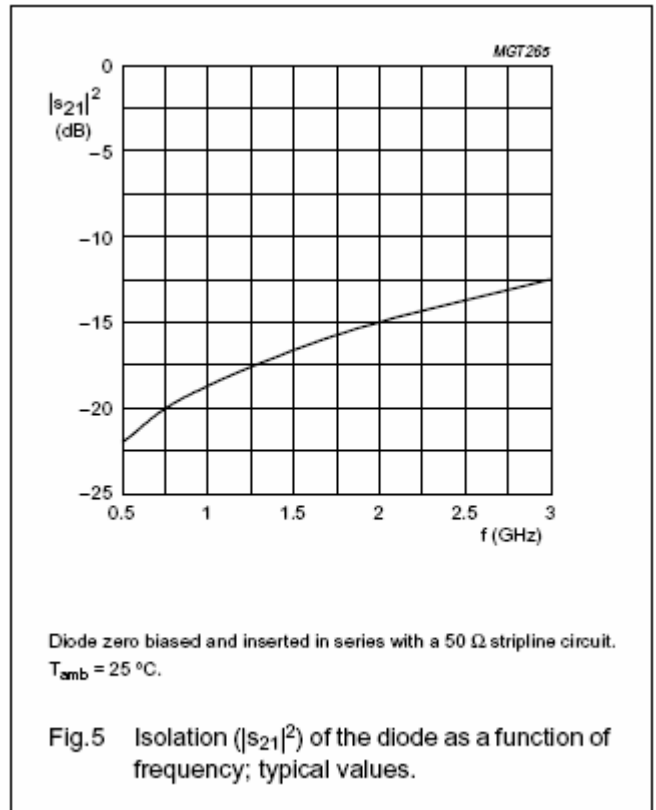
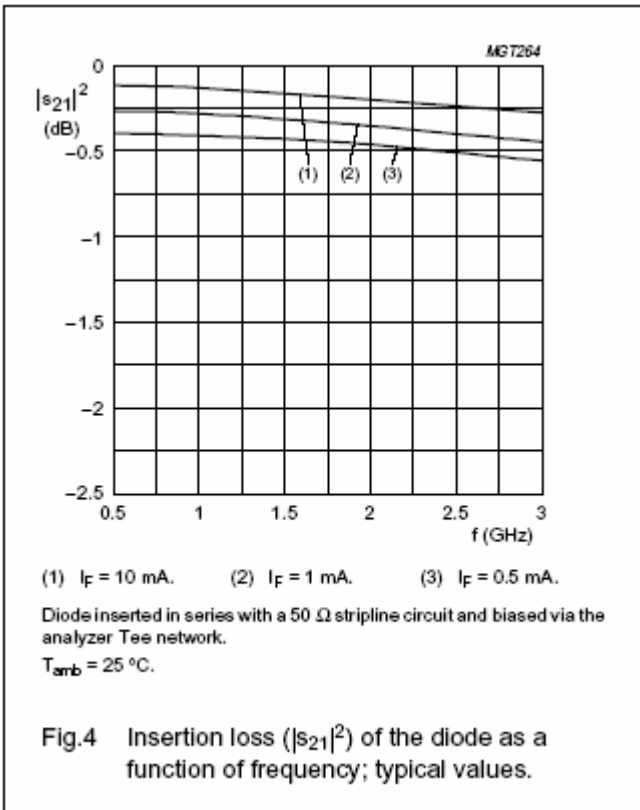
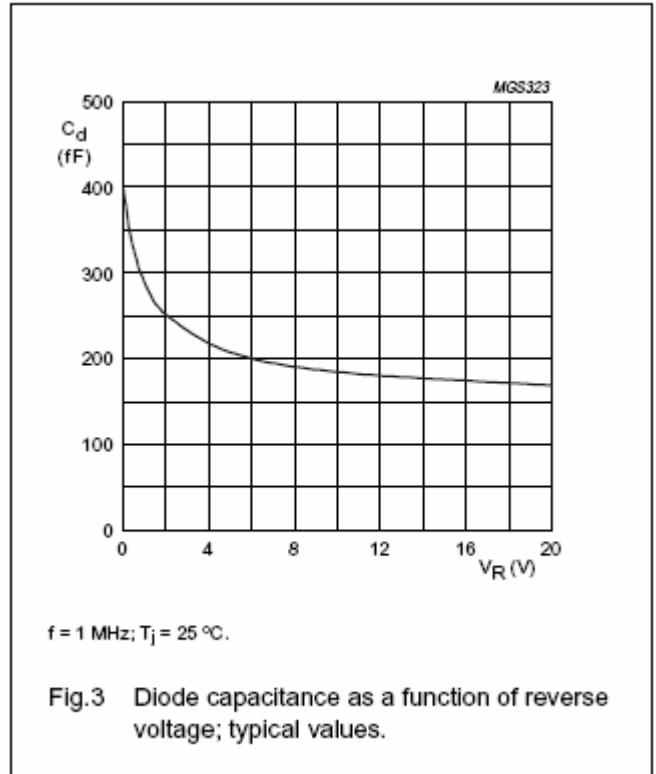
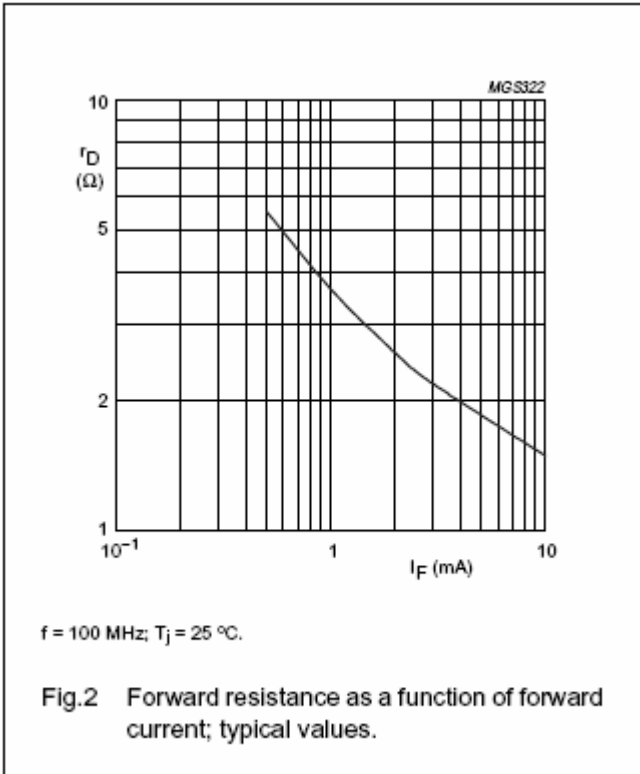
Parameter	Symbol	Min.	Max.	Unit	Conditions
Continuous reverse voltage	V_R	50		V	$I_R=10\mu\text{A}$
Forward voltage	V_F		1.1	V	$I_F=50\text{mA}$
Reverse current	I_R		100	nA	$V_R=50\text{V}$
Diode capacitance	C_{d1}		0.4(Typ)	pF	$V_R=0\text{V}, f=1\text{MHz}$
	C_{d2}		0.55	pF	$V_R=1\text{V}, f=1\text{MHz}$
	C_{d3}		0.35	pF	$V_R=5\text{V}, f=1\text{MHz}$
Diode forward resistance	r_D		9	Ω	$I_F=0.5\text{mA}, f=100\text{MHz}$
	r_D		6.5	Ω	$I_F=1\text{mA}, f=100\text{MHz}$
	r_D		2.5	Ω	$I_F=10\text{mA}, f=100\text{MHz}$

SOD523



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.059	.067	1.50	1.70	
B	.043	.051	1.10	1.30	
C	.030	.033	0.75	0.85	
D	.001	.003	0.01	0.07	
E	.010	.014	0.25	0.35	
F	.003	.006	0.08	0.15	
G	.020	.028	0.50	0.70	
H	.020	.031	0.51	0.77	

Typical Characteristics





Micro Commercial Components

Ordering Information

Device	Packing
Part Number-TP	Tape&Reel;8Kpcs/Reel

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