



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 (818) 701-4939 **BAP51-02**

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

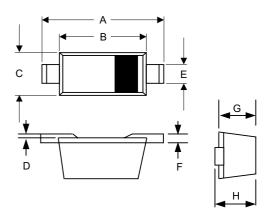
Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	V_R	60	V
Forward Current	I _F	50	mA
Power Dissipation(T _A =90°C)	P _D	715	mW
Junction and Storage temperature	T _j , P _{stg}	-65~+150	$^{\circ}$
Thermal Resistance Junction to solder point	RthJs	85	K/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min.	Max.	Unit	Conditions
Continuous reverse voltage	V_R	50		V	I _R =10μA
Forward voltage	V_{F}		1.1	V	I _F =50mA
Reverse current	I _R		100	nA	V _R =50V
Diode capacitance	C _{d1}		0.4(Typ)	pF	VR=0V,f=1MHz
	C _{d2}		0.55	pF	V _R =1V,f=1MHz
	C _{d3}		0.35	pF	V _R =5V,f=1MHz
Diode forward resistance	r_D		9	Ω	I _F =0.5mA, f=100MHz
	r _D		6.5	Ω	I _F =1mA , f=100MHz
	r_D		2.5	Ω	I _F =10mA , f=100MHz

General Purpose Pin Diodes 715mW

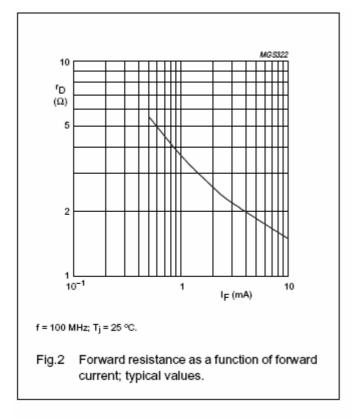
SOD523

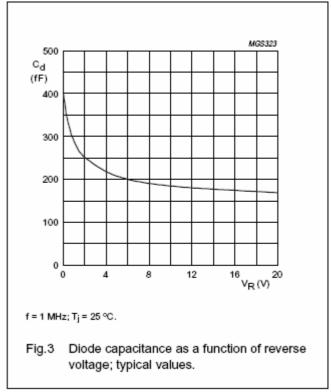


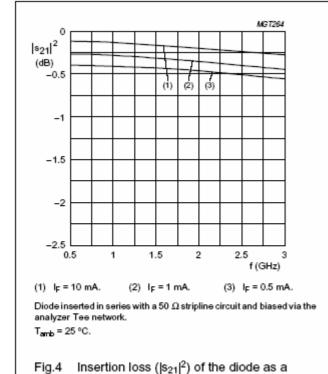
	DIMENSIONS					
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.059	.067	1.50	1.70		
В	.043	.051	1.10	1.30		
С	.030	.033	0.75	0.85		
D	.001	.003	0.01	0.07		
Е	.010	.014	0.25	0.35		
F	.003	.006	0.08	0.15		
G	.020	.028	0.50	0.70		
Н	.020	.031	0.51	0.77		

Typical Characteristics

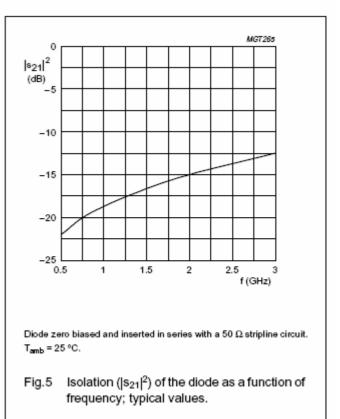








function of frequency; typical values.





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Ordering Information

Device	Packing
Part Number-TP	Tape&Reel8Kpcs/Reel

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