

BAP51-02

General Purpose Pin Diodes 715mW

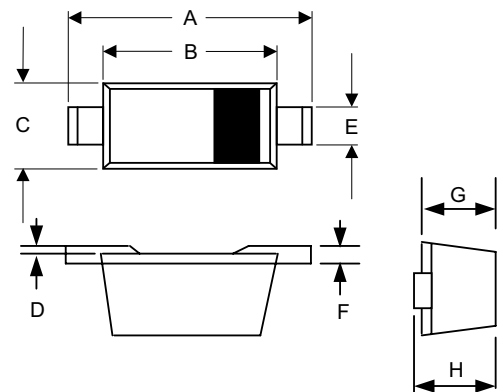
Features

- 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

SOD523



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	$I_F=10\text{mA}, f=100\text{MHz}$

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	



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Ordering Information

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

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