

BAP50-03

General Purpose Pin Diodes 200mW

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: A81

Maximum Ratings @ 25°C Unless Otherwise Specified

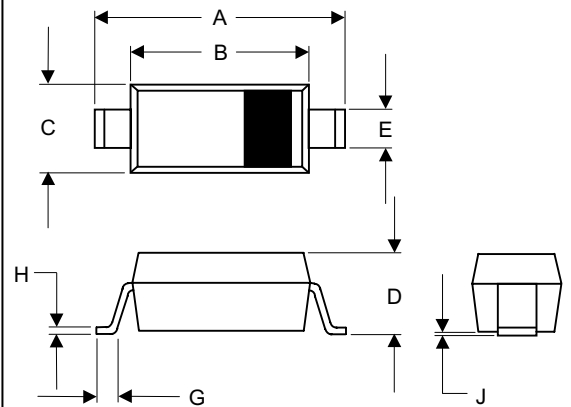
Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	V_R	50	V
Forward Current	I_F	50	mA
Power Dissipation ($T_A=90^\circ\text{C}$)	P_D	200	mW
Junction and Storage temperature	T_j, P_{stg}	-65~+150	°C
Thermal Resistance Junction to Ambient	R_{thJA}	85	K/W

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}		1.11	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		40	Ω	$I_F=0.5\text{mA}, f=100\text{MHz}$; Note 1
	r_D		25	Ω	$I_F=1.0\text{mA}, f=100\text{MHz}$; Note 1
	r_D		5	Ω	$I_F=10\text{mA}, f=100\text{MHz}$; Note 1

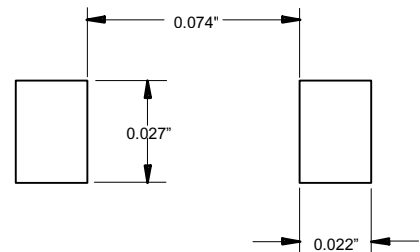
Note 1. Guaranteed on AQL basis: inspection level S4, AQL 1.0.

SOD-323



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT





Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel

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