

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
- Halogen Free. "Green" Device (Note 1)

Maximum Ratings

• Operating Junction Temperature Range: -65°C to +150°C

• Storage Temperature Range: -65°C to +150°C

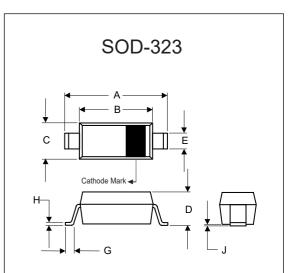
• Thermal Resistance: 85°C/W Junction to Ambient

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	V _R	50	V
Forward Current	I _F	50	mA
Power Dissipation(T _A =90°C)	P _D	200	mW

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

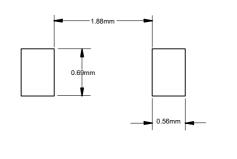
Device Marking: A81

General Purpose Pin Diodes 200mW



DIMENSIONS					
DIM INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

SUGGESTED SOLDER PAD LAYOUT





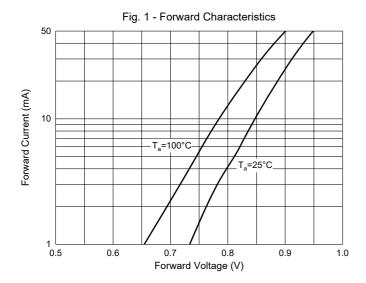
Electrical Characteristics @ 25°C Unless Otherwise Specified

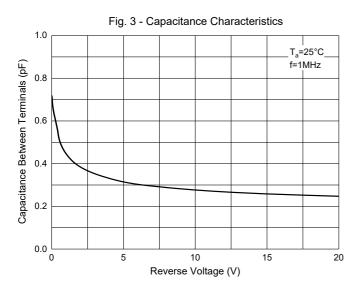
Parameter	Symbol	Min.	Max.	Conditions
Continuous Reverse Voltage	V_R	50V		I _R =10µA
Forward Voltage	V _F		1.1V	I _F =50mA
Reverse Current	I _R		100nA	V _R =50V
Diode Capacitance	C _{d1}		0.91pF	V _R =0V,f=1MHz
	C _{d2}		0.55pF	V _R =1V,f=1MHz
	C _{d3}		0.35pF	V _R =5V,f=1MHz
Diode Forward Resistance	R_D		40Ω	I _F =0.5mA,f=100MHz; Note 2
	R _D		25Ω	I _F =1.0mA,f=100MHz; Note 2
	R _D		5Ω	I _F =10mA,f=100MHz; Note 2

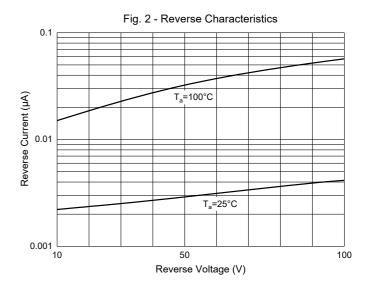
Note 2. Guaranteed on AQL basis: inspection level S4,AQL 1.0.

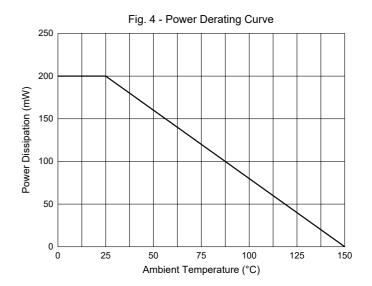


Curve Characteristics











Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

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