

Features

- · Surface Mount Package Ideally Suited for Automatic Insertion
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

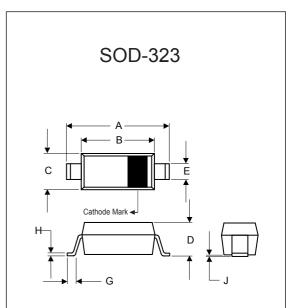
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 312.5°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAS316	A6 •		

Parameter	Symbol	Value	
Maximum Peak Reverse Voltage	V_{RM}	100V	
Maximum DC Blocking Voltage	V_{R}	100V	
Peak Forward Current	I _F	250mA	
Peak Forward Surge Current (t=1µs)		4A	
(t=1ms)	I_{FSM}	1A	
(t=1s)		0.5A	
Power Dissipation	P_D	400mW	

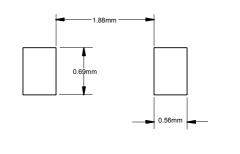
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

400mW High Speed Switching Diode



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	
Е	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



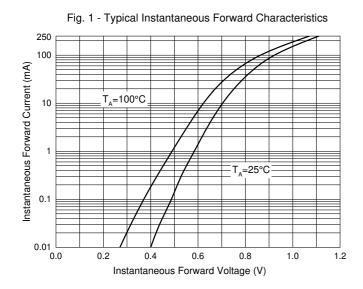


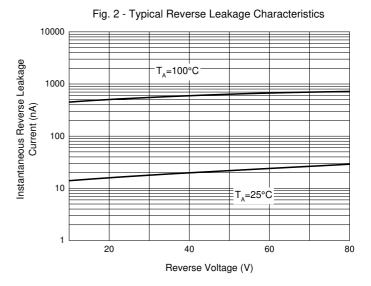
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

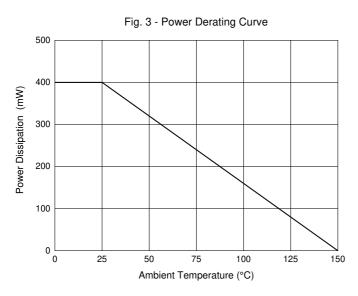
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	I _R =100μA	100			٧
Forward Voltage	V _F	I _F =1mA			0.715	٧
		I _F =10mA			0.855	٧
		I _F =50mA			1	٧
		I _F =150mA			1.25	٧
D	V _R =20V			0.03	μA	
Reverse Current	erse Current I _R	V _R =75V			1	μA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			1.5	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$			4	ns



Curve Characteristics









Ordering Information

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

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