

Features

- · High Conductance
- · Fast Switching Speed
- 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: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- · Thermal Resistance: 357°C/W Junction to Ambient

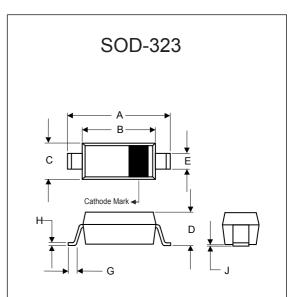
MCC Part Number	Device Marking		
BAS16WXH	T4		

Parameter	Symbol	Value	
Non-Repetitive Peak Reverse Voltage	V_{RM}	100V	
DC Reverse Voltage	V _R	100V	
Peak Repetitive Reverse Voltage	V_{RRM}	100V	
RMS Reverse Voltage	V _{R(RMS)}	70V	
Forward Continuous Current (Note 2)	I _{FM}	200mA	
Average Rectified Current	I _{F(AV)}	100mA	
Peak Forward Surge Current (t=1s)		2A	
(t=10µs)	I _{FSM}	1A	
Power Dissipation (Note 2)	P _D	350mW	

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

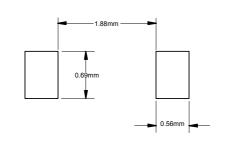
Notes: 2. Valid Provided that Terminals are Kept at Ambient Temperature.

350mW High Speed Switching Diode



DIMENSIONS					
DIM INCHES		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





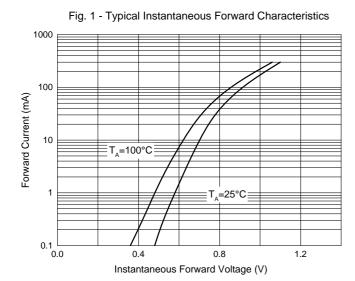
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage V _F	\/	I _F =1mA			0.715	٧
		I _F =10mA			0.855	V
	V _F	I _F =50mA			1	V
		I _F =150mA			1.25	٧
David Committee	V _R =75V			1	μA	
Reverse Current	Reverse Current I _R	V _R =75V, T _J =150°C			20	μA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			2	pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_m = 0.1 \times I_R, R_L = 100 \Omega$			6	ns

^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics



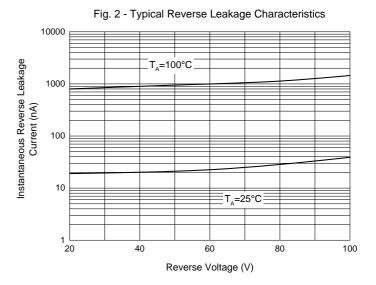


Fig. 3 - Power Derating Curve

400
350

WE
250

100

100

50

Ambient Temperature (°C)

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Ordering Information

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

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