

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- 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
- 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(Note 2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
BAS16WXHE3	75V	53V	75V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

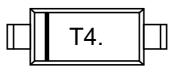
Parameter	Symbol	Value	
Average Rectified Current	I _{F(AV)}	100mA	
Peak Forward Surge Current (t=1s)	1	2A	
(t=10µs)	I _{FSM}	1A	
Power Dissipation	P _D	350mW	

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

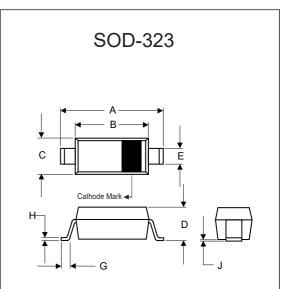
2. Valid Provided that Terminals are Kept at Ambient Temperature.

Internal Structure and Marking Code



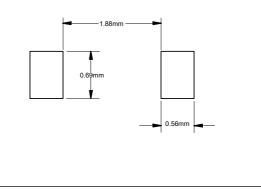






DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





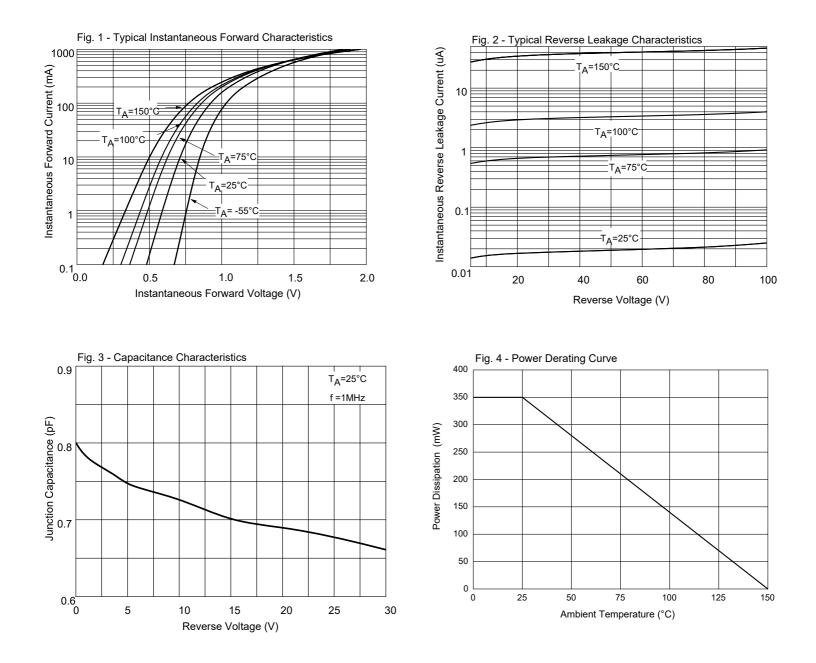
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _{BR}	Ι _R =100μΑ	75			V
Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =75V			1	μA
		V _R =75V, T _J =150°C			50	μA
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			2	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA, I _{rr} =0.1×I _R ,R _L =100Ω			6	ns

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



Curve Characteristics





Ordering Information

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

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