

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
BAS16WHE3	75V	. 53V	75V

Electrical Characteristics @ 25°C Unless Otherwise Specifie

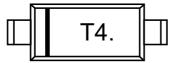
Parameter	Symbol	Value
Average Rectified Current	I _{F(AV)}	100mA
Peak Forward Surge Current (t=1s)		2A
(t=10µs)	IFSM	1A
Power Dissipation	P _D	350mW

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

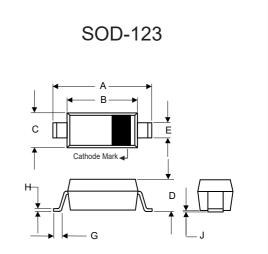
2. Valid Provided that Terminals are Kept at Ambient Temperature.

Internal Structure and Marking Code



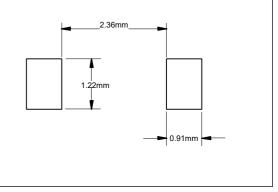


350mW High Speed Switching Diode



	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.140	0.152	3.55	3.85	
В	0.100	0.112	2.55	2.85	
С	0.055	0.071	1.40	1.80	
D		0.053		1.35	
E	0.018	0.026	0.45	0.65	
G	0.006		0.15		
Н		0.010		0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





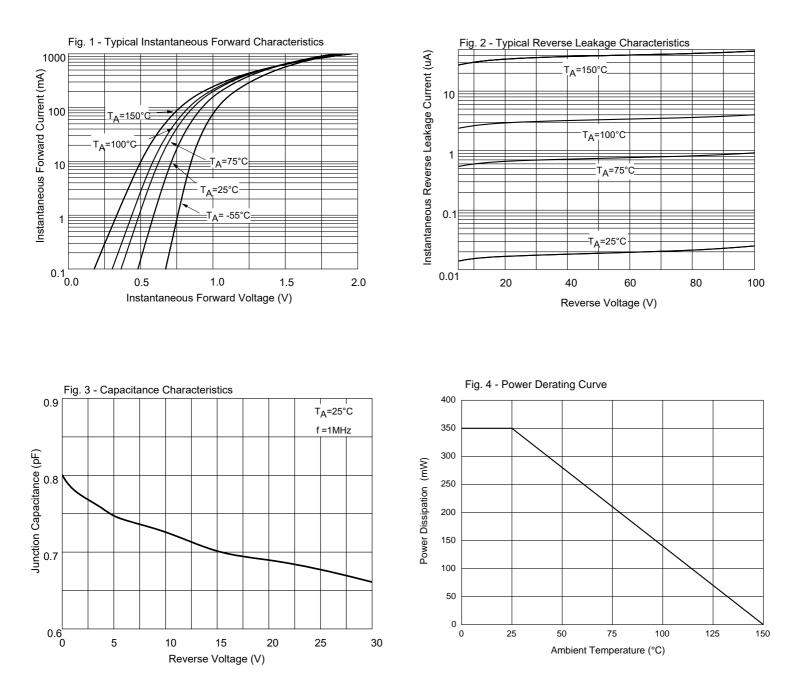
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units																						
Reverse Breakdown Voltage	V _{BR}	Ι _R =100μΑ	75			V																						
		I _F =1mA			0.715	V																						
F 177.6		I _F =10mA			0.855	V																						
Forward Voltage	V _F	I _F =50mA			1	V																						
	-												I _F =150mA			1.25	V											
Doverse Current		V _R =75V			1	μA																						
Reverse Current	IR	I IR	I IR	'R	I IR	I IR	I IR	I R	I R	R	R	'R	'R	'R	'R	'R	'R	^I R	I _R	١R	'R	'R	'R	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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