

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Current Leakage
- Small Outline Surface Mount Package
- 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
BAS16HE3	100V	71V	. 100V

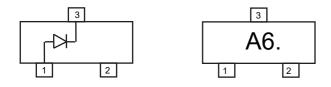
Electrical Characteristics @ 25°C Unless Otherwise Specifie

Parameter	Symbol	Value
Peak Forward Current	١ _F	215mA
Peak Forward Surge Current (t=1s) (t=0.1ms)	I _{FSM}	1A 4A
Power Dissipation	P _D	350mW

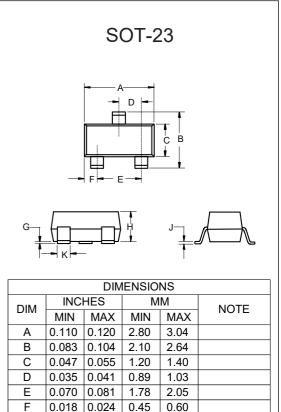
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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

Internal Structure and Marking Code

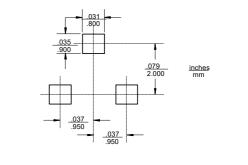


350mW 100Volt Switching Diode



F	0.018	0.024	0.45	0.60	
G	0.0005	0.0039	0.01	0.10	
Н	0.035	0.044	0.89	1.12	
J	0.003	0.007	0.085	0.180	
K	0.015	0.020	0.37	0.51	

Suggested Solder Pad Layout





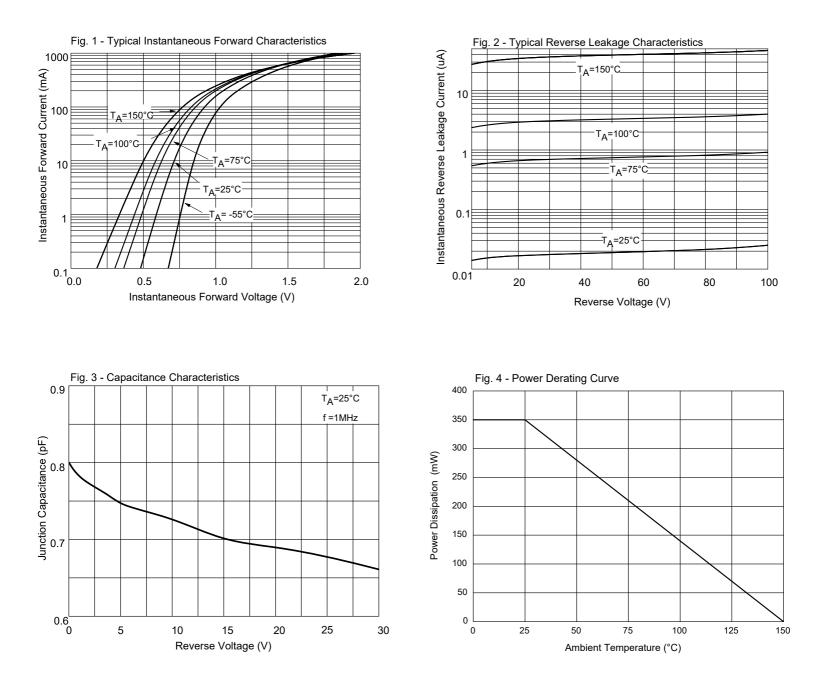
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	Ι _R =100μΑ	100			V
Maximum Instantaneous Forward Voltage	V _F	I _F =1mA			0.715	V
		I _F =10mA			0.855	V
		I _F =50mA			1	V
		I _F =100mA			1.25	V
Maximum DC Reverse Current	I _R	V _R =75V, T _J =25°C			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 =10mA, V _R = 6.0V,R _L =100Ω			4	ns

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



Curve Characteristics







Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. *Micro Commercial Components Corp*. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold *Micro Commercial Components Corp*. and all the companies whose products are represented on our website, harmless against all damages. *Micro Commercial Components Corp*. products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources**. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Micro Commercial Components (MCC):

BAS16HE3-TP