

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- High Conductance
- Fast Switching Speed
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 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 : 357°C/W Junction to Ambient(Note 2)

MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	Continuous Reverse Voltage V _R
BAS19HE3	JP	120V	120V
BAS20HE3	JR	200V	200V
BAS21HE3	JS	250V	250V

Maximum Ratings @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I _{F(AV)}	225mA	(Note 2)
Forward DC Current	I _{FM}	400mA	T _A =25°C (Note 2)
Non-Repetitive Peak Forward Surge Current	I _{FSM}	9.0A 0.5A	@ t=1us @ t=1s
Repetitive Peak Forward Curren	I _{FRM}	625mA	
Power Dissipation	P _{TOT}	350mW	T _A =25°C

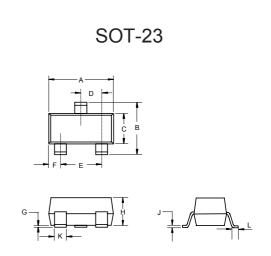
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Mounted on FR-4 board with recommended pad layout.

Internal Structure

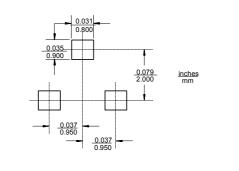






	DIMENSIONS					
		HES	MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
Α	0.110	0.120	2.80	3.04		
В	0.083	0.104	2.10	2.64		
С	0.047	0.055	1.20	1.40		
D	0.034	0.041	0.85	1.05		
E	0.067	0.083	1.70	2.10		
F	0.018	0.024	0.45	0.60		
G	0.0004	0.006	0.01	0.15		
Н	0.035	0.043	0.90	1.10		
J	0.003	0.007	0.08	0.18		
K	0.014	0.020	0.35	0.51		
L	0.007	0.020	0.20	0.50		

Suggested Solder Pad Layout



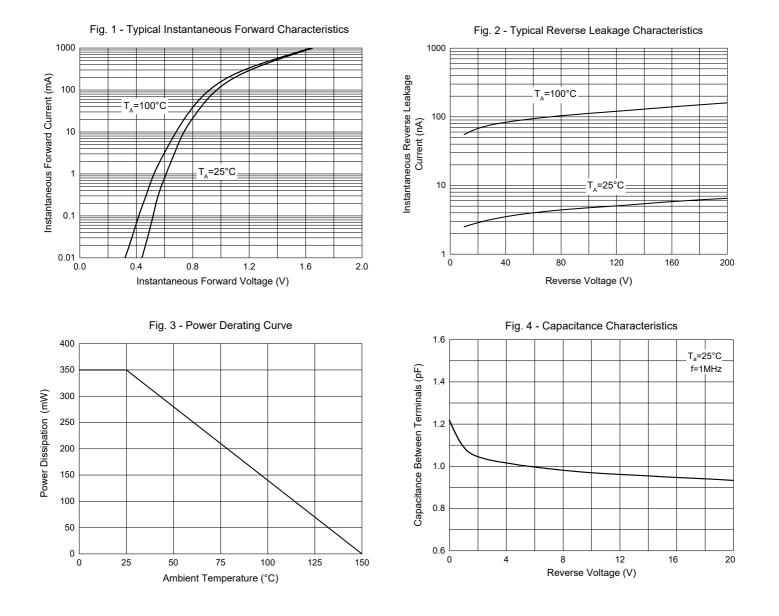


Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage	V _F	I _F =100mA			1	V
Forward Voltage		I _F =200mA			1.25	V
Reverse Current	I _R	V _R =V _{Rmax}			100	nA
		V _R =V _{Rmax} , T _J =150°C			100	μA
Dynamic Forward Resistance	r _f	I _F =100mA		5		Ω
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			5	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =30mA, I _{rr} =0.1×I _R ,R _L =100Ω			50	ns



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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Micro Commercial Components (MCC) manufacturer:

Other Similar products are found below :

RD0306T-H BAV17-TR BAV19-TR 1N3611 NTE156A NTE525 NTE571 NTE574 NTE5804 NTE5806 NTE6244 1SS181-TP 1SS193,LF 1SS400CST2RA SDAA13 SHN2D02FUTW1T1G LS4151GS08 1N4449 1N456A 1N4934-E3/73 1N914B 1N914BTR RFUH20TB3S BAS 28 E6327 BAV199-TP BAW56DWQ-7-F BAW75-TAP MM230L-CAA IDW40E65D1 JAN1N3600 LL4151-GS18 053684A SMMSD4148T3G 707803H NSVDAN222T1G SP000010217 CDSZC01100-HF BAV199E6433HTMA1 BAV70M3T5G SMBT2001T1G NTE5801 NTE5800 NTE5808 NTE6240 NTE6248 BAS28-7 BAW56HDW-13 BAS28 TR VS-HFA04SD60STR-M3 NSVM1MA152WKT1G