

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.

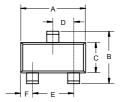
2. Mounted on FR-4 board with recommended pad layout.

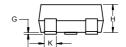
Internal Structure



350mW Small Signal Diodes

SOT-23

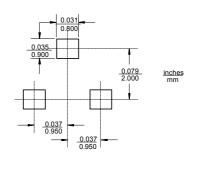






DIMENSIONS					
DIM INC		HES N		M	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020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

Suggested Solder Pad Layout



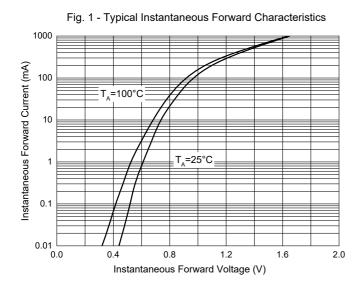


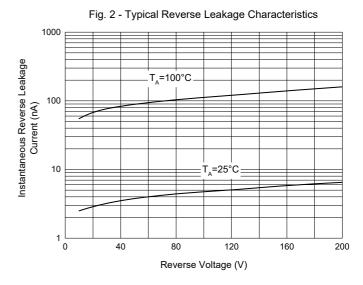
Electrical Characteristics @ 25°C Unless Otherwise Specified

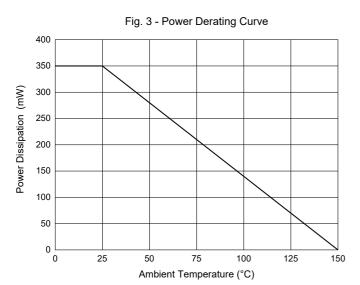
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage	V _F	I _F =100mA			1	V
		I _F =200mA			1.25	V
Reverse Current	I _R	V _R =V _{Rmax}			100	nA
		V _R =V _{Rmax} , T _J =150°C			100	μA
Dynamic Forward Resistance	r _f	I _F =100mA		5		Ω
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			5	pF
Reverse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

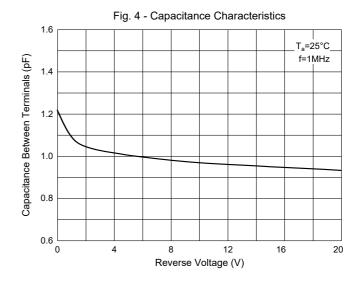


Curve Characteristics











Ordering Information

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

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