

Features

- · Ideally Suited For Automatic Insertion
- · Fast Switching Speed
- · Epitaxial Planar Die Construction
- Halogen Free. "Green" Device (Note 1)
- · 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)

Mechanical Data

• Weight: 0.008 Grams (Approx.)

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

MCC Part Number	Device Marking	Repetitive Peak Reverse Voltage V _{RRM}	Continuous Reverse Voltage V _R
BAS19	JP	120V	120V
BAS20	JR	200V	200V
BAS21	JS	250V	250V

Average Rectified Forward Current	I _{F(AV)}	225mA	(Note 2)
Forward continuous current	I _{FM}	400mA	T _A =25°C (Note 2)
Non-repetitive Peak Forward Surge Current	I _{FSM}	9.0A 2.0A 0.5A	@ t=1µs @ 1/2 Cycle, Sine Wave, 60 Hz @ t=1s
Repetitive Peak Forward Curren	I _{FRM}	625mA	
Power Dissipation	P _{TOT}	350mW	T _A =25°C

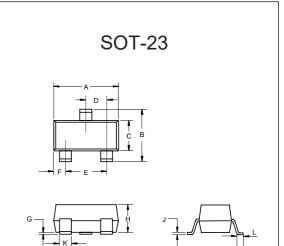
Note:

- 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

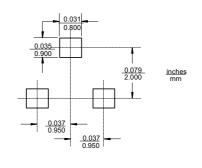


350mW Small Signal Diodes



	DIMENSIONS				
DIM INC		HES MM		М	NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIE
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	
Е	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	
Ι	0.035	0.043	0.90	1.10	
7	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



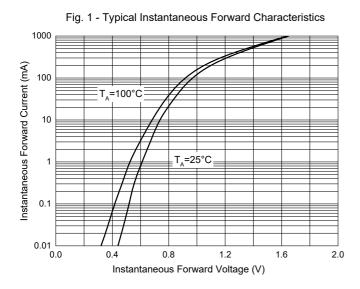


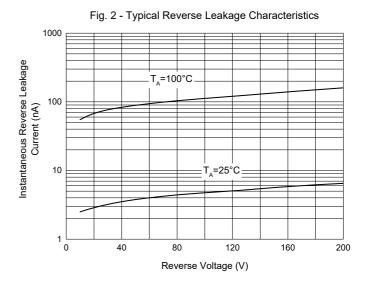
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

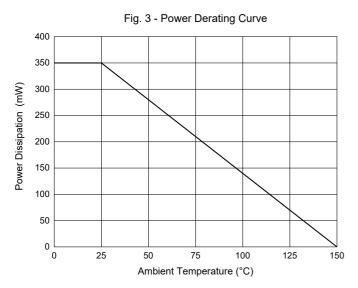
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Forward Voltage	V _F	I _F =100mA			1	V
		I _F =200mA			1.25	V
Reverse Current	I _R	V _R =V _{Rmax}			100	nA
		V _R =V _{Rmax} , T _J =150°C			100	μA
Dynamic Forward Resistance	r _f	I _F =100mA		5		Ω
Junction Capacitance	С	V _R = 0V, f = 1MHz			5	pF
Reverse 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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