

#### **Features**

- · High Conductance
- · Fast Switching Speed
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- · 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

MCC Part Number		Device Marking		
BAS21A		JS2		
BAS21C		JS3		
BAS21S	BAS21S		JS4	
Forward DC Current	I <sub>FM</sub>	200mA	T <sub>A</sub> =25°C	
Non Donatitive				

Forward DC Current	I <sub>FM</sub>	200mA	T <sub>A</sub> =25°C
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	2.5A 0.5A	@ t = 1.0μs @ t = 1s
Power Dissipation	P <sub>D</sub>	225mW	T <sub>A</sub> =25°C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Breakdown Voltage	$V_{BR}$	250V	I <sub>R</sub> =100μA
Maximum Forward Voltage	$V_{F}$	1.10V	I <sub>FM</sub> =100.0mA T <sub>J</sub> =25°C
Maximum leakage current	I <sub>R</sub>	1.0μΑ	V <sub>R</sub> =200V T <sub>J</sub> =25°C
Diode Capacitance	$C_D$	5.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	50.0ns	

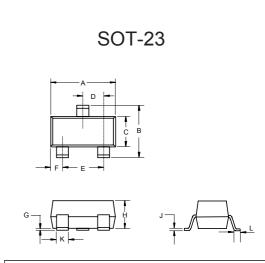
### **Internal Structure**





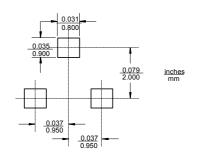


# 225mW 250Volt Switching Diode



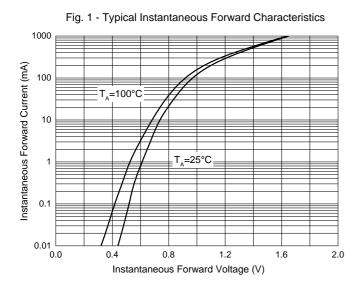
DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020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

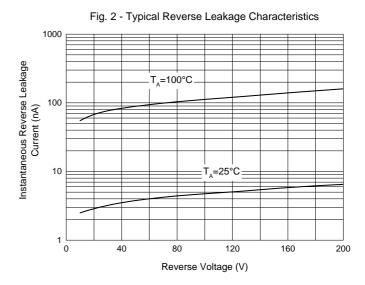
## **Suggested Solder Pad Layout**

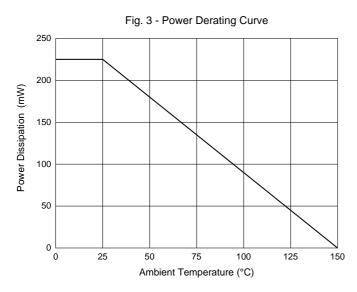




## **Curve Characteristics**







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# **Ordering Information**

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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