

Features

- High Conductance
- Fast Switching Speed
- 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)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

225mW 250Volt Switching Diode

MCC Part Number		Device Marking		
BAS21A		JS2		
BAS21C		JS3		
BAS21S		JS4		
Forward DC Current	I _{FM}	200mA	T _A =25°C	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	2.5A 0.5A	@ t = 1.0µs @ t = 1s	
Power Dissipation	P _D	225mW	T _A =25°C	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Breakdown	V _{BR}	250V	Ι _R =100μΑ
Voltage	· BR	2007	
Maximum Forward Voltage	V _F	1.10V	I _{FM} =100.0mA T _J =25°C
Maximum leakage current	I _R	1.0µA	V _R =200V T _J =25°C
Diode Capacitance	C _D	5.0pF	V _R =0.0V,f=1.0MHz
Reverse Recovery Time	t _{rr}	50.0ns	

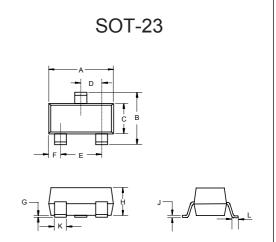
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



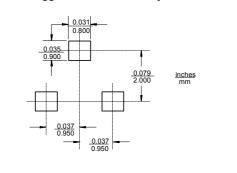






	DIMENSIONS						
DIM	INCHES		MM		NOTE		
	MIN	MAX	MIN	MAX	NOTE		
А	0.110	0.120	2.80	3.04			
В	0.083	0.104	2.10	2.64			
С	0.047	0.055	1.20	1.40			
D	0.034	0.041	0.85	1.05			
Е	0.067	0.083	1.70	2.10			
F	0.018	0.024	0.45	0.60			
G	0.0004	0.006	0.01	0.15			
Н	0.035	0.043	0.90	1.10			
J	0.003	0.007	0.08	0.18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

Suggested Solder Pad Layout





Curve Characteristics

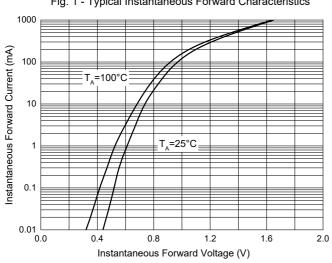
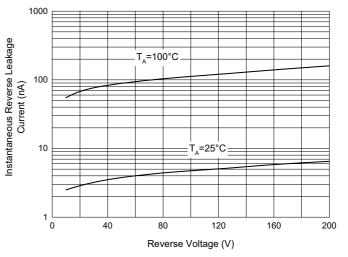
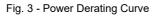
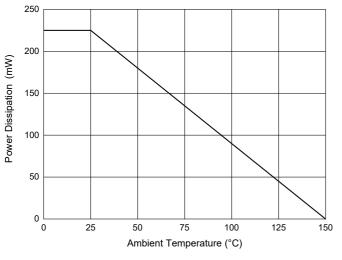


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics









Ordering Information

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

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