

Features

- For Surface Mount Application •
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating •
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS ٠ Compliant. See Ordering Information)

Maximum Ratings

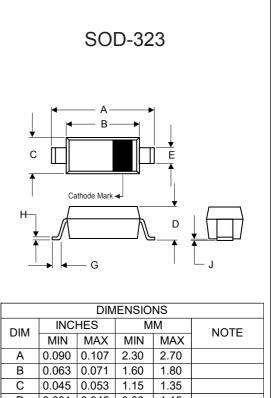
- Operating Junction Temperature Range: -55°C to +150°C •
- Storage Temperature Range: -55°C to +150°C ٠
- Thermal Resistance: 625°C/W Junction to Ambient •

MCC Part Number	Device Marking		
BAS21WS	JS		

Parameter	Symbol	Value
Continuous Reverse Voltage	V _R	250V
Maximum Peak Forward Current	I _{FM}	200mA
Peak Forward Surge Current	I _{FSM}	625mA
Power Dissipation (NOTE 1)	P _D	200mW

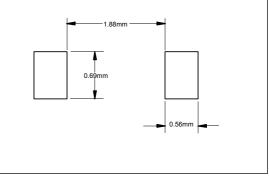
Notes: 1. Mounted on FR-5 Board Minimum Pad, Derate above 25°C.

200mW **High Voltage Switching Diode**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
Е	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units									
Reverse Breakdown Voltage	V _{BR}	Ι _R =100μΑ	250			V									
	V _F	I _F =100mA			1	V									
Forward Voltage		I _F =200mA			1.25	V									
Deveree Current	ent I _R	V _R =200V			0.1	μA									
Reverse Current		I R	I R	I R	I R	'R	'R	'R	I R	'R	R R	V _R =200V, T _J =150°C			100
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$			5	pF									
Reverse Recovery Time	t _{rr}	$I_F=I_R=30$ mA, $I_{rr}=0.1 \times I_R, R_L=100\Omega$			50	ns									



Curve Characteristics

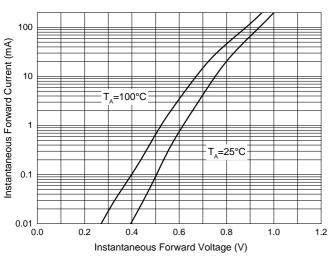


Fig. 1 - Typical Instantaneous Forward Characteristics

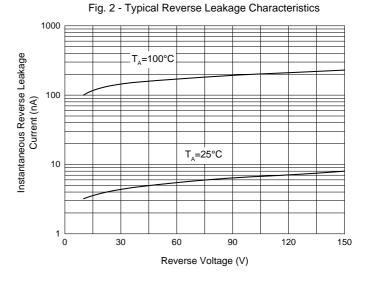
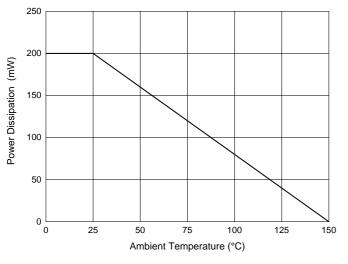


Fig. 3 - Power Derating Curve





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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