

Features

- · 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 ###Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 556°C/W Junction to Ambient

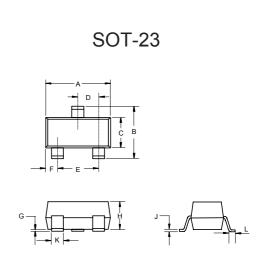
MCC Part Number	Device Marking		
BAS116	JV		

Parameter	Symbol	Value
Reverse Voltage	V_R	75V
Forward DC Current	I _F	200mA
Peak Forward Surge Current (t=8.3ms)	I _{FSM}	2A
Power Dissipation	P _D	225mW

Internal Structure

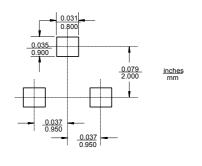


225mW Switching Diode



DIMENSIONS					
DIM INCH		HES MM		NOTE	
ווועו	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 =1mA			0.9	V
	\/	I _F =10mA			1	V
	V _F	I _F =50mA			1.1	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =75V			5	nA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$			2	pF
Reverse Recovery Time	t _{rr}	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$			3	μs



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

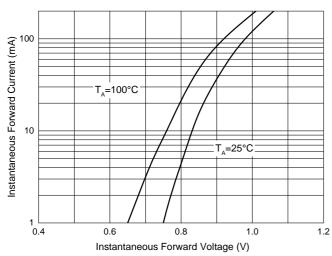


Fig. 2 - Typical Reverse Leakage Characteristics

O.8

T_a=100°C

T_a=25°C

O.4

O.2

O.15

30

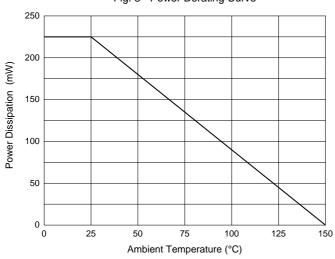
45

60

75

Reverse Voltage (V)

Fig. 3 - Power Derating Curve





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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