

Features

- · Low Leakage Current Applications
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

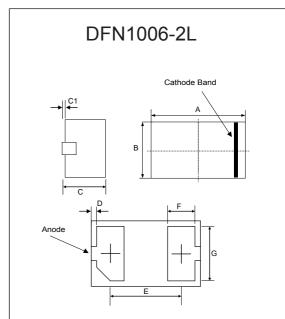
- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +125°C
- Thermal Resistance: 417°C/W Junction to Ambient

MCC Part Number	Device Marking		
BAS116L2B	BV		

Parameter	Symbol	Value	
Maximum Reverse Voltage	V _{RM}	85V	
RMS Reverse Voltage	V _{R(RMS)}	60V	
Forward Continuous Current	I _{FM}	215mA	
Repetitive Peak Forward Current	I _{FRM}	500mA	
Peak Forward Surge Current (t=1µs (t=1m (t=1	S) I _{FSM}	4A 1A 0.5A	
Power Dissipation	P _D	300mW	

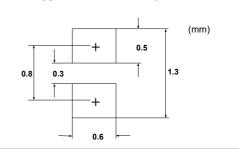
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

300mW,85V Switching Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.037	0.041	0.95	1.05	
В	0.022	0.026	0.55	0.65	
С	0.016	0.020	0.40	0.50	
C1		0.002		0.05	
D	0.001	0.003	0.02	0.08	
Е	0.026		0.65		TYP.
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	I _R =100μA	85			V
Forward Voltage	V _F	I _F =1mA			0.9	V
		I _F =10mA			1	V
		I _F =50mA			1.1	V
		I _F =150mA			1.25	V
Reverse Current	I _R	V _R =75V			5	nA
Reverse Current		V _R =75V, T _J =150°C			80	nA
Junction Capacitance	CJ	$V_R = 0V$, $f = 1MHz$		2		pF
Reverse Recovery Time	t _{rr}	$I_F = I_R = 10 \text{mA},$ $I_{rr} = 0.1 ^*I_R, R_L = 100 \Omega$			3	μs

^{*} Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%

75



Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

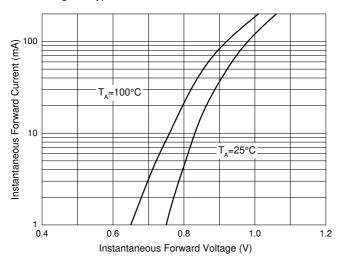


Fig. 2 - Typical Reverse Leakage Characteristics

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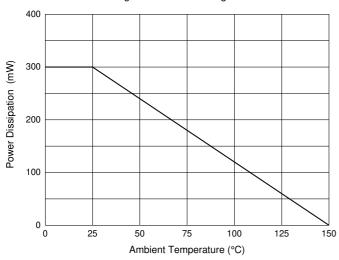
T_A=100°C

T_A=25°C

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Reverse Voltage (V)

Fig. 3 - Power Derating Curve





Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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