



Micro Commercial Components



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**BAS116L2**

## Features

- Low leakage current applications.
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Marking: JV
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering information)

## Maximum Ratings

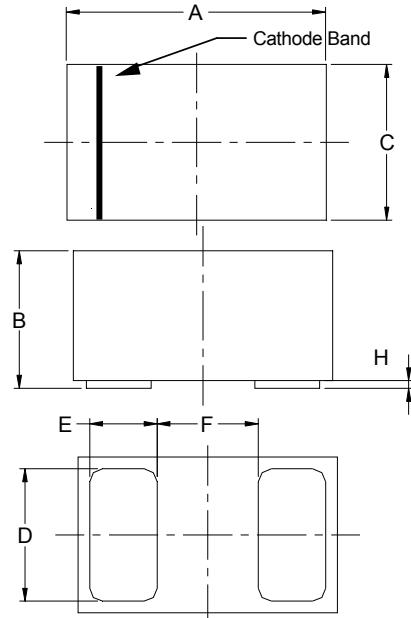
Rating	Symbol	Rating	Unit
Reverse Voltage	$V_R$	85	V
RMS Reverse Voltage	$V_{R(RMS)}$	60	V
Forward Continuous Current	$I_{FM}$	215	mA
Repetitive Peak Forward Current	$I_{FRM}$	500	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0\mu s$	$I_{FSM}$	4.0	A
@ $t = 1.0ms$		1.0	
@ $t = 1.0s$		0.5	
Power Dissipation	$P_d$	300	mW
Thermal Resistance Junction to Ambient	$R_{thJA}$	417	°C/W
Junction Temperature	$T_J$	-65 to +150	
Storage Temperature	$T_{STG}$	-65 to +150	°C

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Min	Typ	Max	Units
Reverse Breakdown Voltage ( $I_R=100\mu A$ )	$V_{(BR)R}$	85	---	---	V
Forward Voltage ( $I_F=1mA$ )	$V_{FM}$	---	---	0.90	V
( $I_F=10mA$ )		---	---	1.00	
( $I_F=50mA$ )		---	---	1.10	
( $I_F=150mA$ )		---	---	1.25	
Reverse Leakage Current ( $V_R=75V$ )	$I_R$	---	---	5.0	nA
( $V_R=75V$ , $T_J=150^\circ C$ )		---	---	80	
Junction Capacitance ( $V_R=0$ , $f=1.0MHz$ )	$C_J$	---	2.0	---	pF
Reverse Recovery Time ( $I_F=I_R=10mA$ $Irr=0.1*I_R$ )	$t_{rr}$	---	---	3	μs

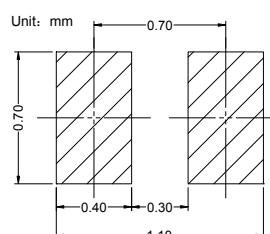
## 300mW Switching Diode

**DFN1006-2C**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.037	.042	0.95	1.075	
B	.019	.021	0.47	0.53	
C	.022	.027	0.55	0.675	
D	.018	.022	0.45	0.55	
E	.008	.012	0.20	0.30	
F	.016(Typ.)		0.40(Typ.)		
H	.000	.002	0.00	0.05	

### SUGGESTED SOLDER PAD LAYOUT



TYPICAL CHARACTERISTICS @  $T_A=25^\circ\text{C}$  unless otherwise specified

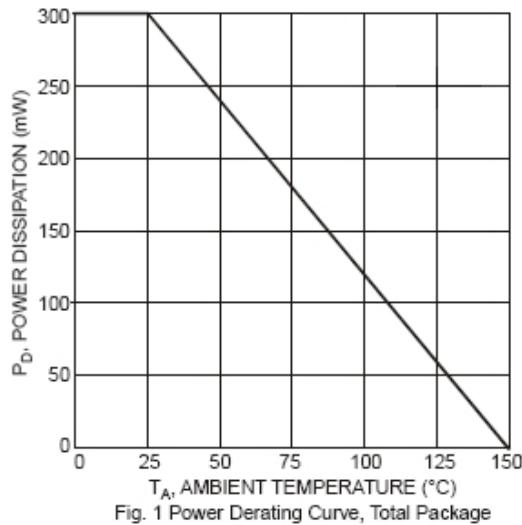


Fig. 1 Power Derating Curve, Total Package

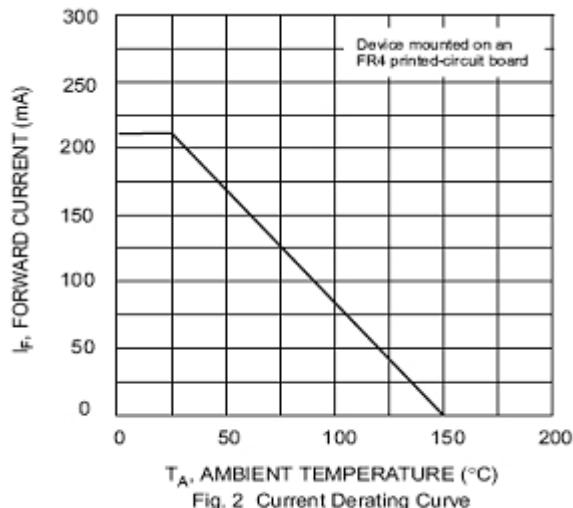


Fig. 2 Current Derating Curve

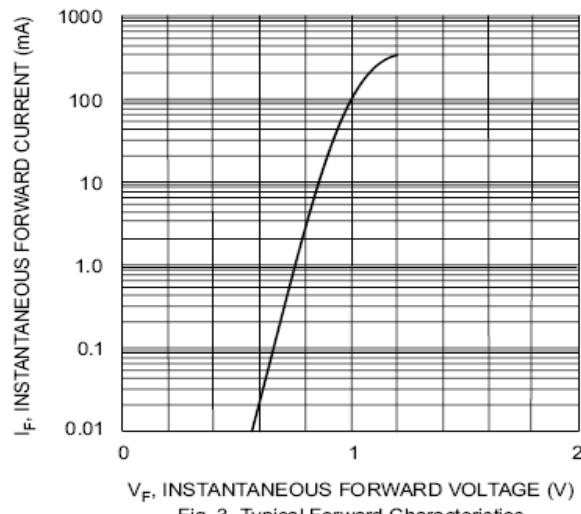


Fig. 3 Typical Forward Characteristics

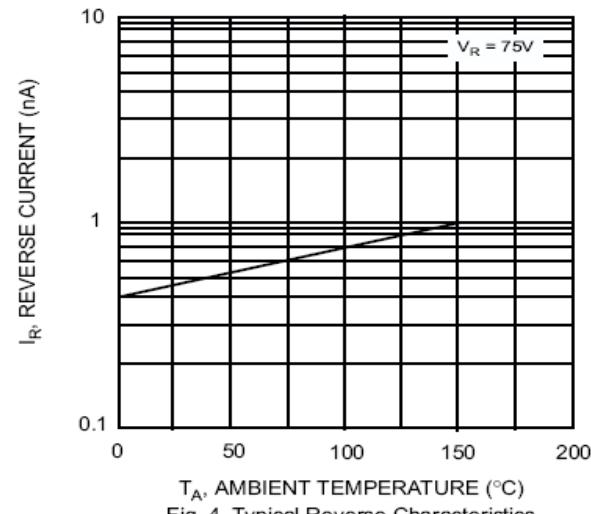


Fig. 4 Typical Reverse Characteristics



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## Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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