



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

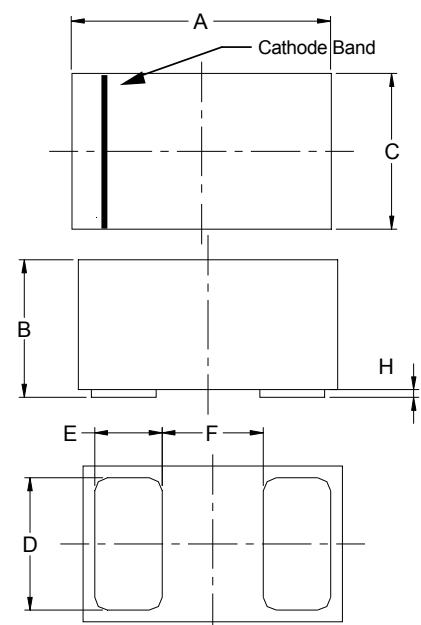
Rating	Symbol	Rating	Unit
Reverse Voltage	V_R	85	V
RMS Reverse Voltage	$V_{R(RMS)}$	60	V
Forward Continuous Current	I_{FM}	215	mA
Repetitive Peak Forward Current	I_{FRM}	500	mA
Non-Repetitive Peak Forward Surge Current	I_{FSM}	4.0 1.0 0.5	A
		@ t = 1.0µs @ t = 1.0ms @ t = 1.0s	
Power Dissipation	P_d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

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 ($I_F=1mA$) ($I_F=10mA$) ($I_F=50mA$) ($I_F=150mA$)	V_{FM}	---	---	0.90 1.00 1.10 1.25	V
Reverse Leakage Current ($V_R=75V$) ($V_R=75V$, $T_J=150^\circ C$)	I_R	---	---	5.0 80	nA
Junction Capacitance ($V_R=0$, $f=1.0MHz$)	C_j	---	2.0	---	pF
Reverse Recovery Time ($I_F=I_R=10mA$ $I_{rr}=0.1I_R$)	t_{rr}	---	---	3	µs

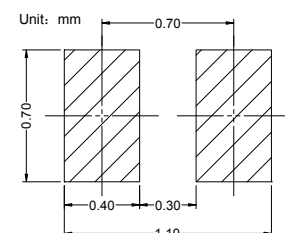
300mW Switching Diode

DFN1006-2C



DIMENSIONS					
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

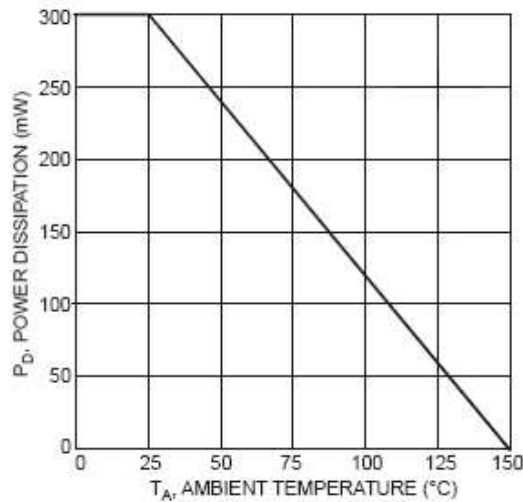


Fig. 1 Power Derating Curve, Total Package

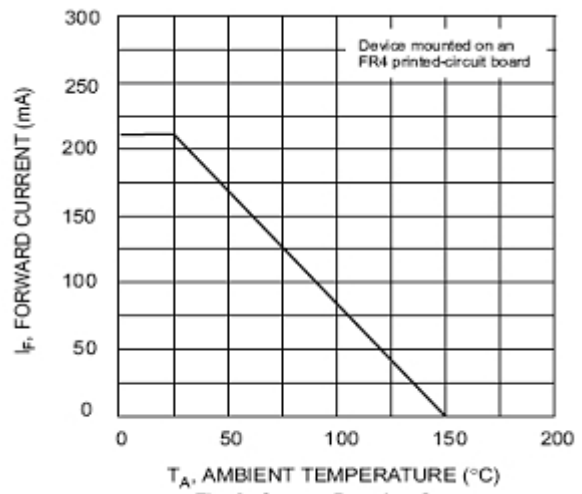


Fig. 2 Current Derating Curve

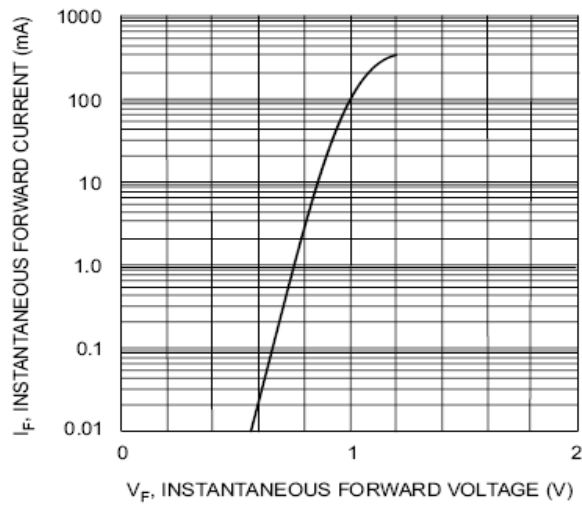


Fig. 3 Typical Forward Characteristics

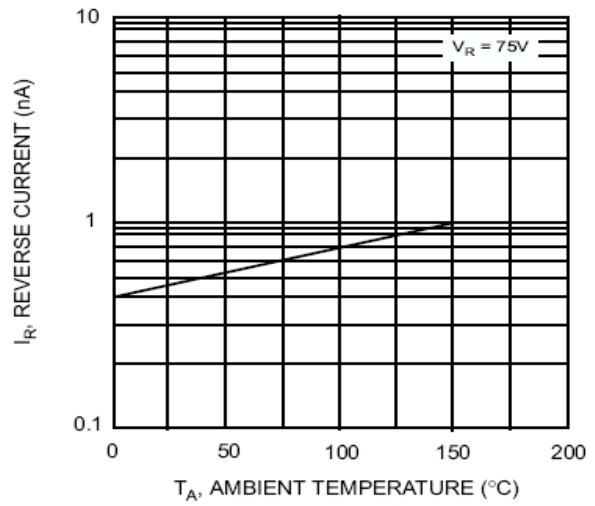


Fig. 4 Typical Reverse Characteristics



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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