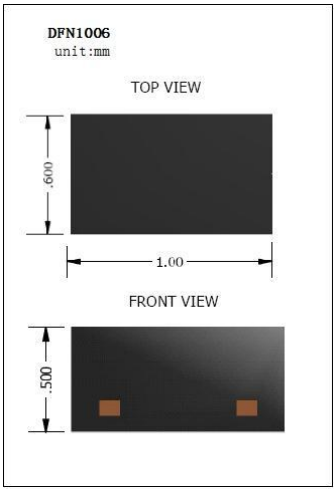


- ◇ Fast switching devices
- ◇ Low Reverse Leakage Current
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)

Device Marking Code	
BAV3004D1	**4P**

Pin & Polarity

Maximum Ratings (Ta = 25 ℃)

Symbol	Parameter	Value	Units
V_{RM}	Non-Repetitive Peak Reverse Voltage	350	V
V_{RRM}	Repetitive Peak Reverse Voltage	350	V
$V_{R(RMS)}$	RMS Reverse Voltage	300	V
I_{FM}	Forward Continuous Current	225	mA
I_{FSM}	Repetitive Peak Forward Current	625	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current (@t=1.0us)	4 .0	A
P_D	Power Dissipation	250	mW
T_J	Junction Temperature	150	℃
R_{JA}	Thermal Resistance Junction to Ambient Air	500	℃/W
T_{STG}	Storage Temperature	-55 to +150	℃

Electrical Characteristics (Ta = 25 ℃ unless otherwise noted)

Symbol	Parameter	Conditions	Min	Max	Units
V_R	Reverse Breakdown Voltage	I_R=150μA	350		V
V_F	Forward Voltage	I_F = 20mA		0.87	V
		I_F = 100mA		1.10	V
		I_F = 200mA		1.25	V
I_R	Reverse current	V_R= 250V （25℃）		150	nA
		V_R= 250V （150℃）		100	uA
C_T	Capacitance	V_R = 0V, f = 1MHz		5.0	pF
t_{rr}	Reverse Recovery Time	I_F = I_R = 30mA, I_{rr} = 0.1*I_R, R_L = 100Ω		50	ns

Fig.1 Power Derating Curve

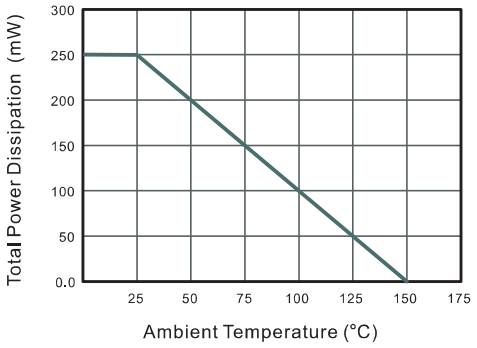


Fig.2 Typical Reverse Characteristics

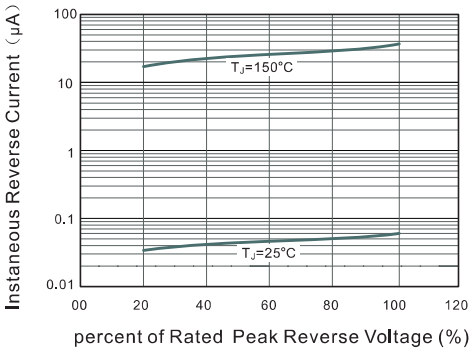
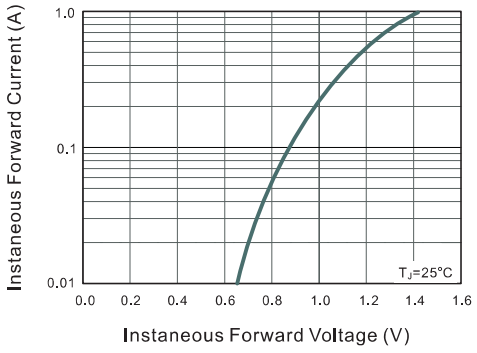


Fig.3 Typical Instaneous Forward Characteristics

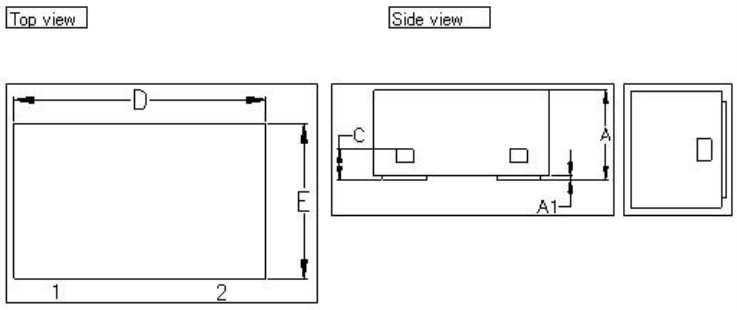


Ordering Information

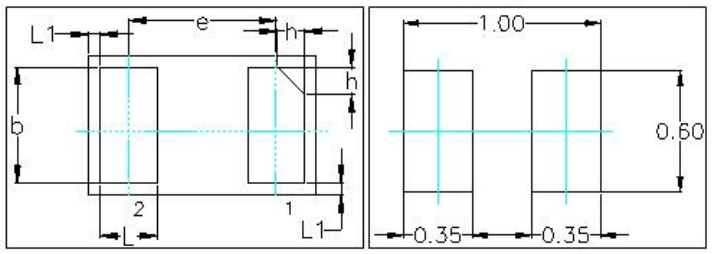
Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV3004D1	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

Package Dimensions

Package outline : DFN1006-2L



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0.00	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05 REF.		
h	0.07	0.12	0.17



Notice:

1.Lead plating: Pb free solder
2.Lead thickness includes solder plating
3.Lead frame: Copper A194
4.Other Tolerance: ± 0.05
5.Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
6.Unit: mm