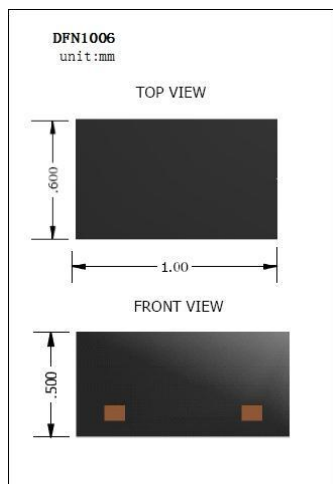




- ◇ Fast switching devices
- ◇ Low Reverse Leakage Current
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)

Device Marking Code	
BAV3004D1	4P

Pin & Polarity



Maximum Ratings (Ta = 25 °C)

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	°C
R_{JA}	Thermal Resistance Junction to Ambient Air	500	°C/W
T_{STG}	Storage Temperature	-55 to +150	°C

Electrical Characteristics (Ta = 25 °C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Max	Units
V_R	Reverse Breakdown Voltage	$I_R=150\mu A$	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°C)		150	nA
		$V_R= 250V$ (150°C)		100	uA
C_T	Capacitance	$V_R = 0V, f = 1MHz$		5.0	pF
t_{rr}	Reverse Recovery Time	$I_F = I_R = 30mA,$ $I_{rr} = 0.1 \cdot I_R, R_L = 100\Omega$		50	ns

Fig.1 Power Derating Curve

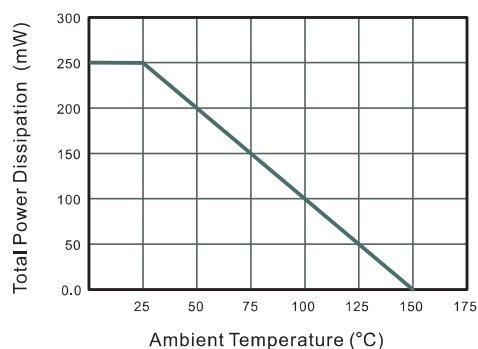


Fig.2 Typical Reverse Characteristics

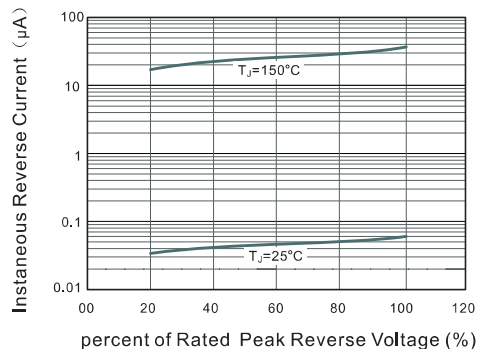
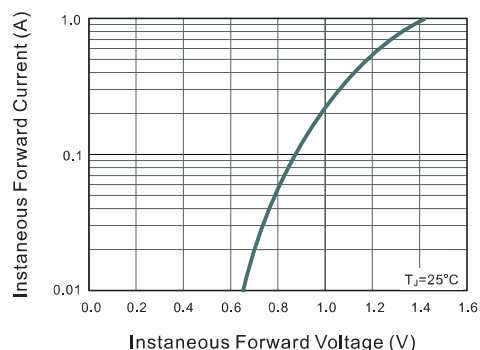


Fig.3 Typical Instantaneous Forward Characteristics



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

