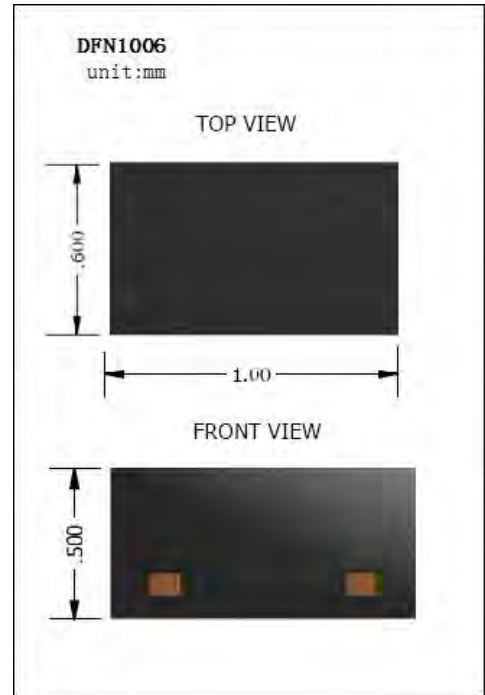
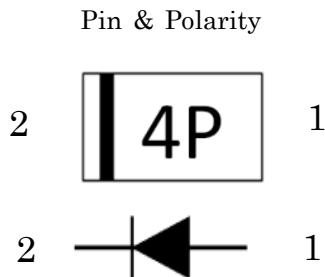


## Switching Diode

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

Device Marking Code	
<b>BAV3004XT</b>	<b>4P</b>



### 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



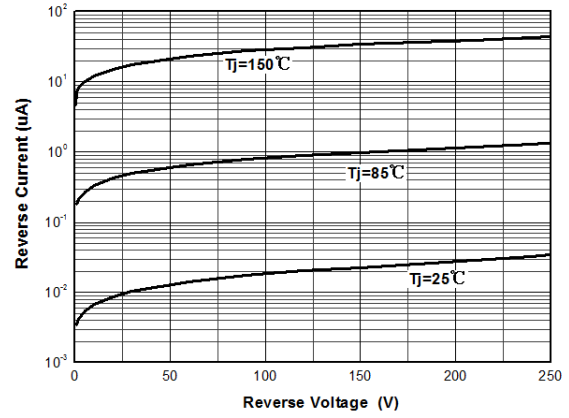
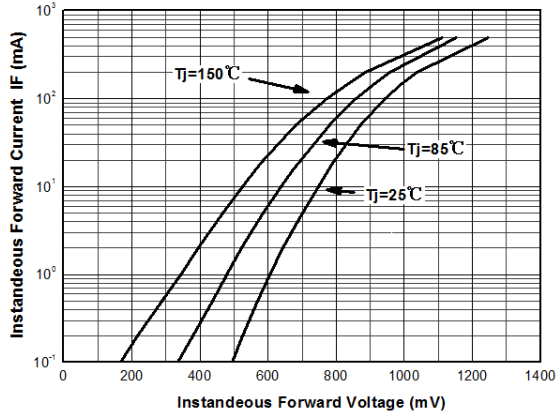
## Switching Diode

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
		$I_F = 100mA$		1.00	V
		$I_F = 200mA$		1.25	V
$I_R$	Reverse current	$V_R= 240V (25^\circ C)$		100	nA
		$V_R= 240V (150^\circ C)$		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

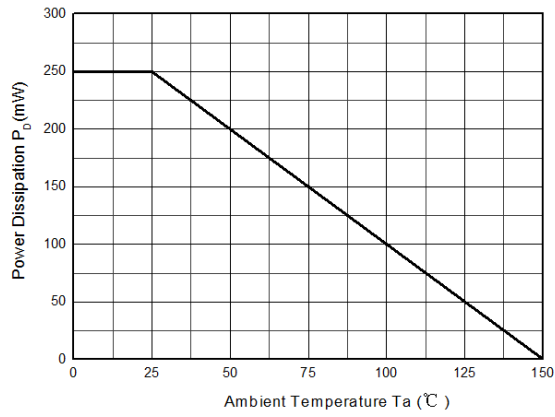
## Switching Diode

### Typical Characteristics



### Forward Characteristics

### Reverse Characteristics



### Power Derating Curve

## Switching Diode

### Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAV3004XT	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

### Package Dimensions

Package outline : DFN1006-2L

**Top view**

**Side view**

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

**Back view**

**Soldering Pattern**

第 1 页

**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