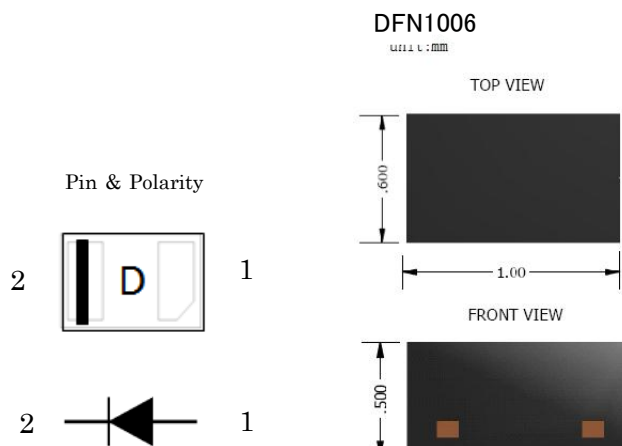


- ◇ Fast switching devices
- ◇ Low Reverse Leakage Current
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Device Marking Code



MAXIMUM RATINGS (Ta = 25 °C)

Symbol	Parameter	Value	Units
V_{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Reverse Voltage	80	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
I_{FRM}	Repetitive Peak Forward Current	300	mA
I_O	Average Forward Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	2	A
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

*1: Pulse width = 1 μ s

ELECTRICAL CHARACTERISTICS (Ta = 25 °C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V_R	Reverse Voltage	IR=100uA	80			V
V_F	Forward Voltage	IF=5mA IF=10mA IF=100mA IF=150mA	0.62		0.72 0.855 1.0 1.25	V
I_R	Reverse Leakage Current	VR=80V VR=20V			100 25	nA
C	Capacitance	$V_R = 0.5V$, f = 1MHz			3	pF
T_{RR}	Reverse Recovery Time	$I_F = I_R = 10mA$ $I_{RR} = 1mA$, $R_L = 100 \Omega$			4	ns

ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
BAS16LD	DFN1006	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

Characteristics Curves

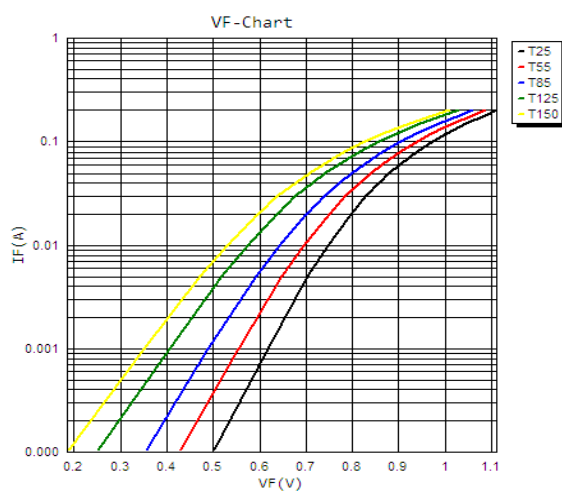


Fig.1 Forward current(I_F) vs Forward voltage(V_F)

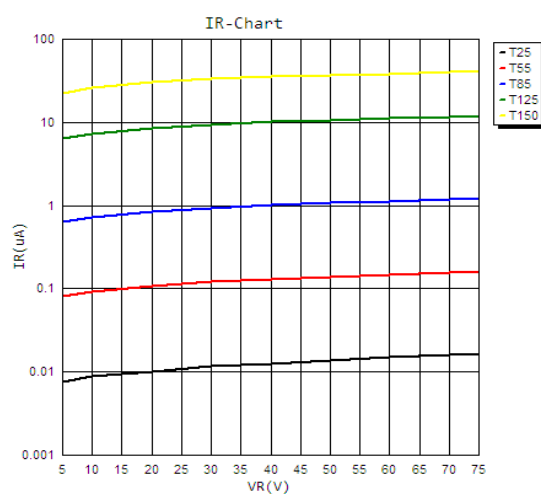


Fig.2 Reverse current(I_R) vs Reverse voltage(V_R)

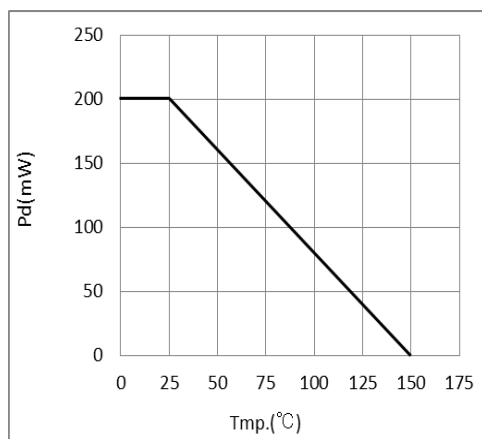


Fig.3 Power Derating Curve

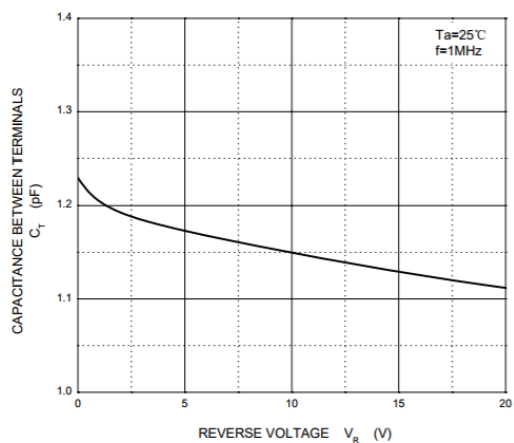
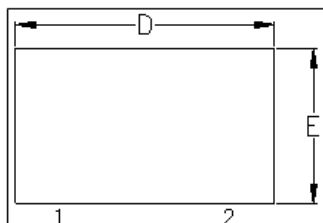


Fig.4 Capacitance vs Reverse voltage(V_R)

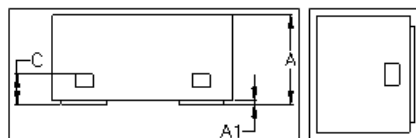
PACKAGE DIMENSIONS

Package outline : DFN1006

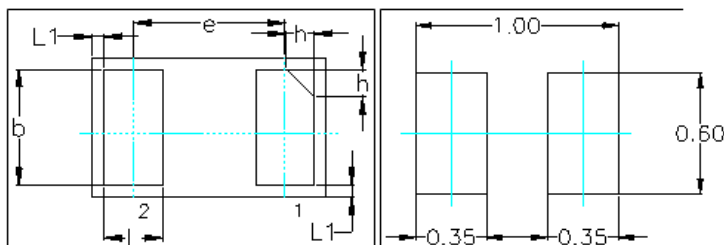
Top view



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



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