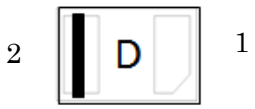
DATA SHEET

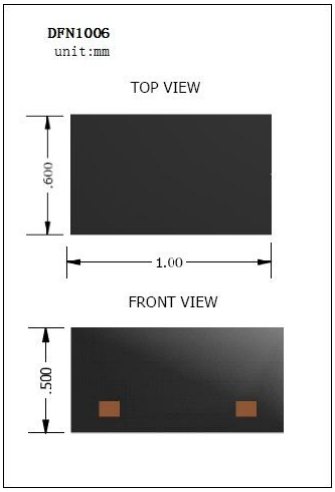
1N4448D1

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

Device Marking Code	
1N4448D1	D

Pin & Polarity





MAXIMUM RATINGS (Ta = 25 ℃)

Symbol	Parameter	Value	Units
V_{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	80	V
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 Disspation	200	mW
T_J	Junction Temperature	150	℃
T_{STG}	Storage Temperature	-55 to +150	℃

*1: Pulse width = 1 μ s

ELECTRICAL CHARACTERISTICS (Ta = 25 ℃ 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 = 100Ω			4	ns

Characteristics Curves

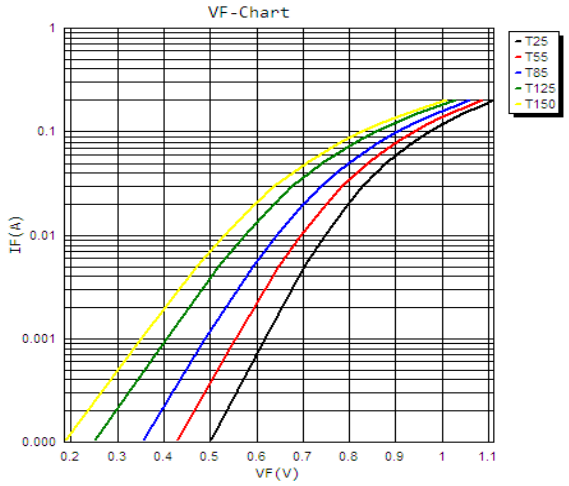


Fig.1 Forward current(IF) vs Forward voltage(VF)

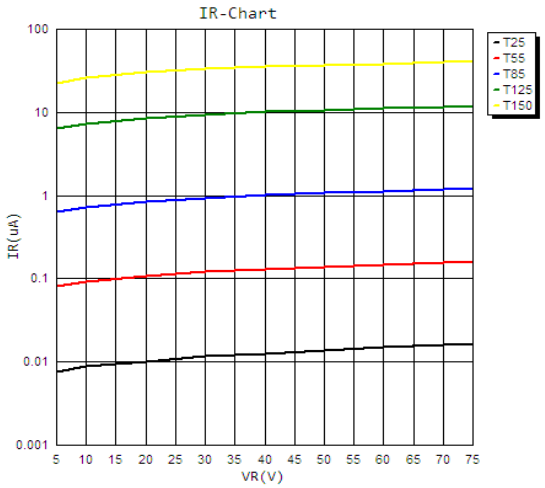


Fig.2 Reverse current(IR) vs Reverse voltage(VR)

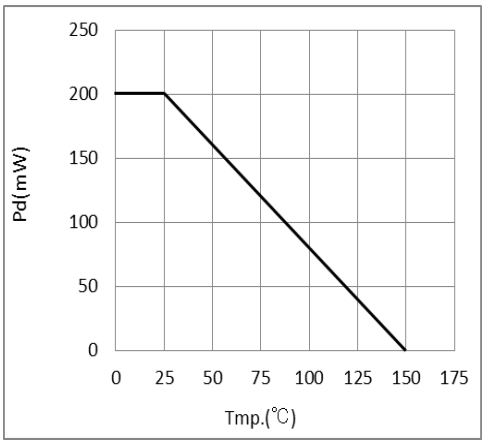


Fig.3 Power Derating Curve

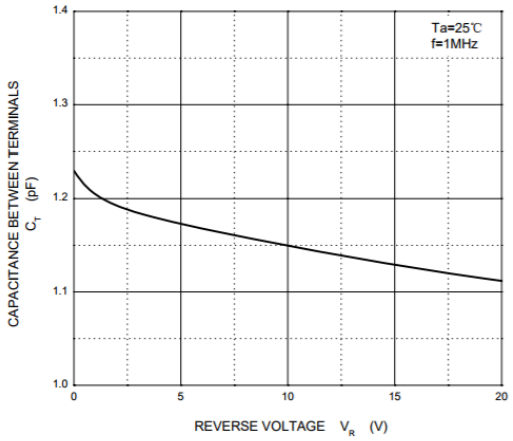
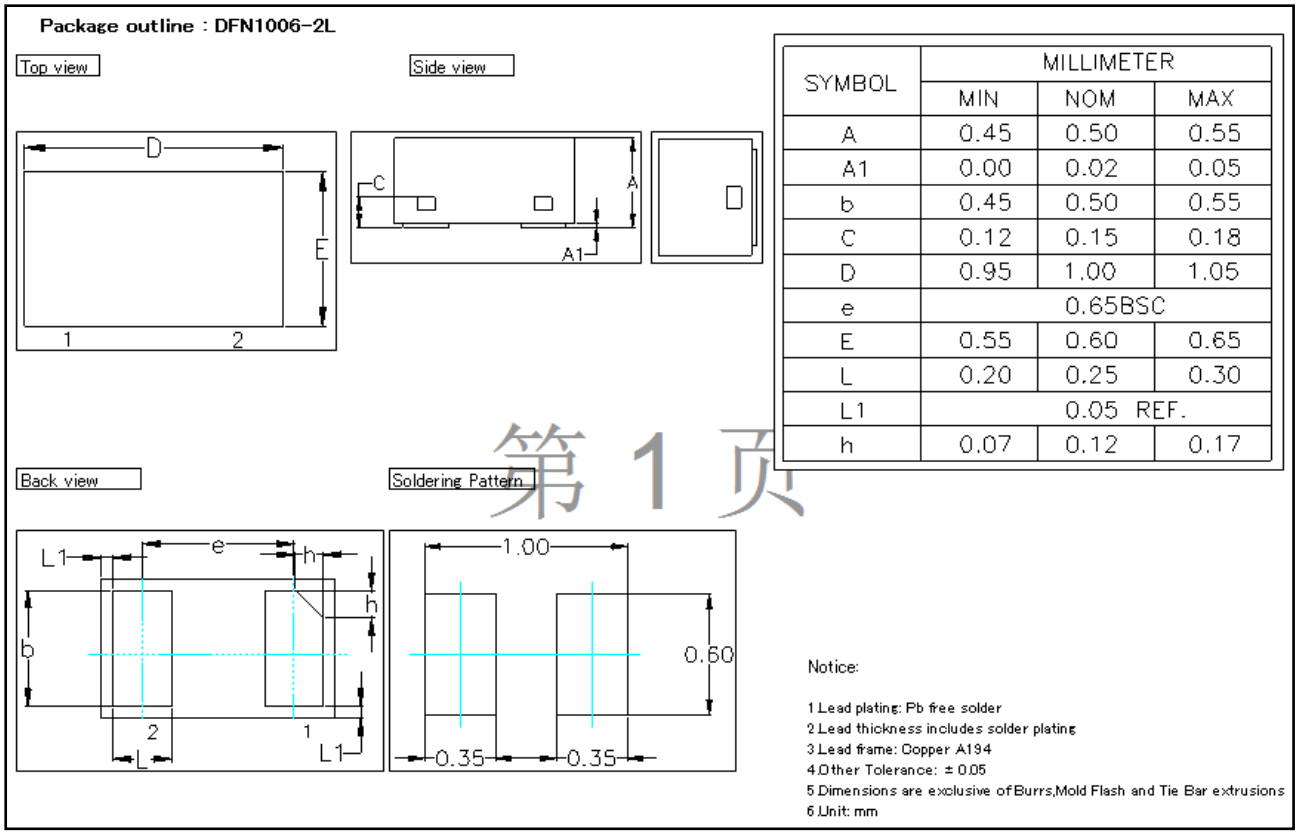


Fig.4 Capacitance vs Reverse voltage(VR)

ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1N4448D1	DFN1006-2L	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

PACKAGE DIMENSIONS



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