

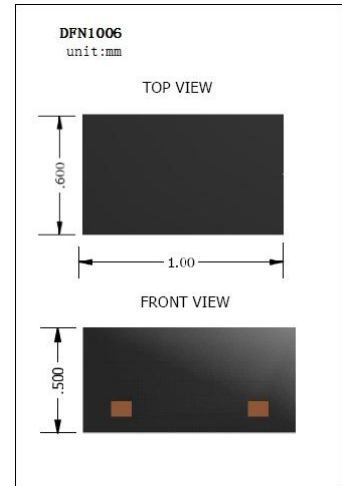
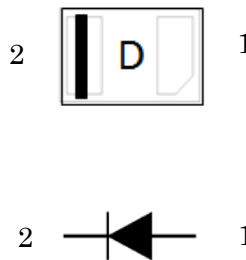
DATA SHEET

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 °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  $\mu$  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	0.62		0.72	V
		IF=10mA		0.855		
		IF=100mA		1.0		
		IF=150mA		1.25		
$I_R$	Reverse Leakage Current	VR=80V			100	nA
		VR=20V			25	

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

**Characteristics Curves**

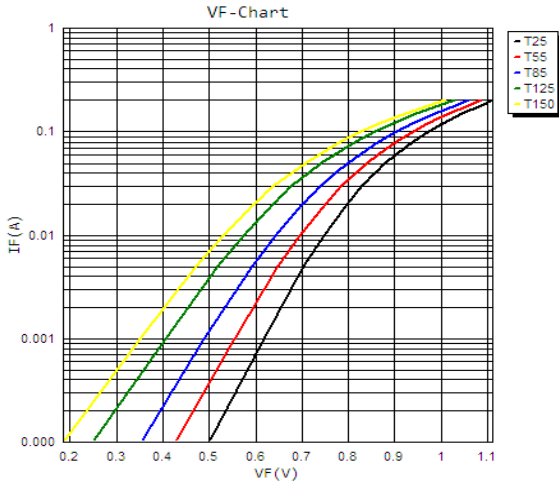


Fig.1 Forward current(IF) vs Forward voltage(VF)

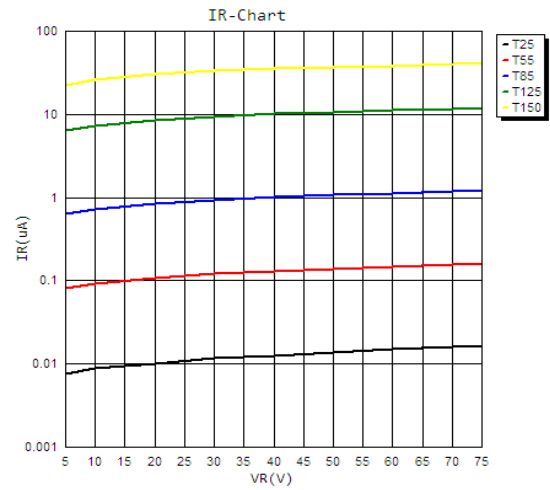


Fig.2 Reverse current(IR) vs Reverse voltage(VR)

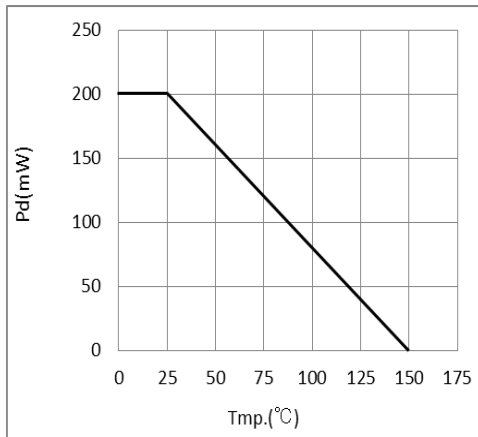


Fig.3 Power Derating Curve

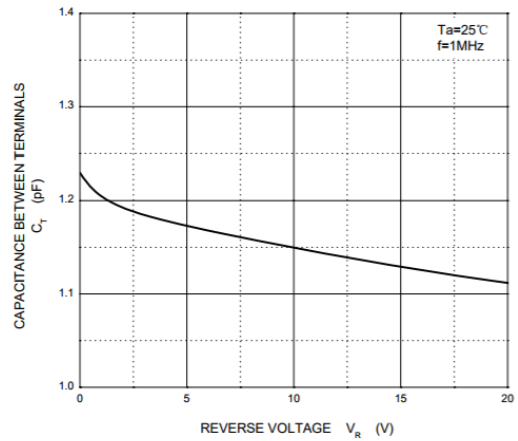
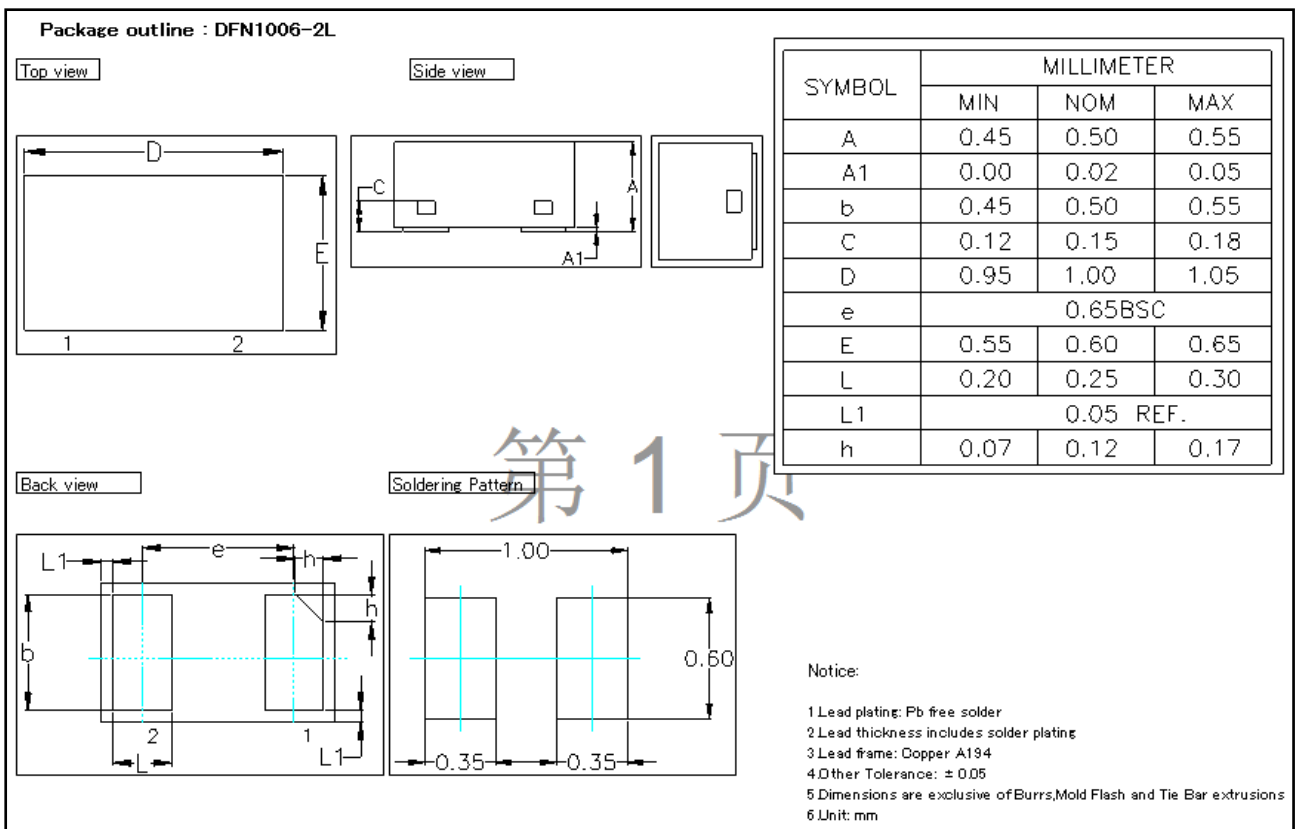


Fig.4 Capacitance vs Reverse voltage(VR)

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



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