

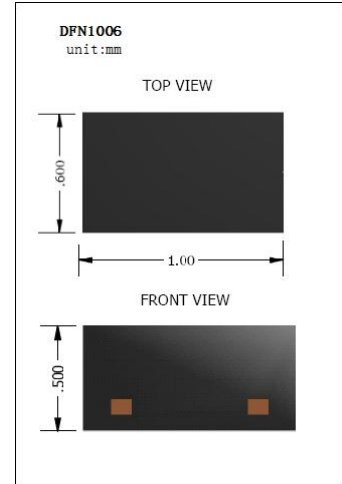
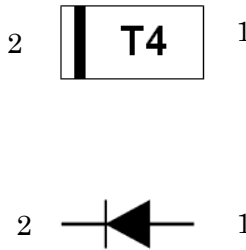
DATA SHEET

1N4148D1

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

Device Marking Code	
1N4148D1	T4

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	75	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	$I_R=100\mu A$	75			V
$V_F$	Forward Voltage	$I_F=5mA$ $I_F=10mA$ $I_F=100mA$ $I_F=150mA$	0.62		0.72 0.855 1.0 1.25	V
$I_R$	Reverse Leakage Current	$V_R=80V$ $V_R=20V$			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

Characteristics Curves

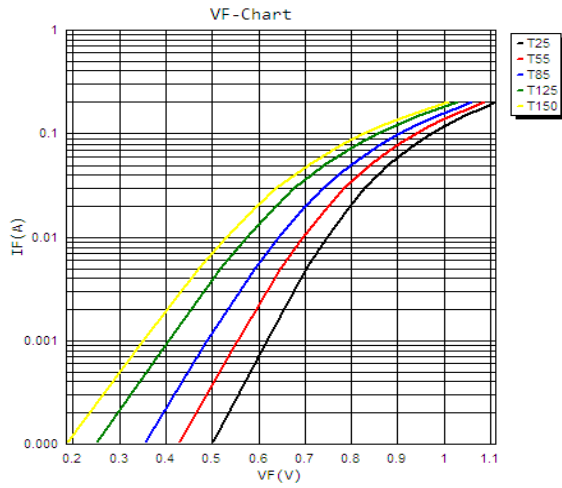


Fig.1 Forward current(IF) vs Forward voltage(VF)

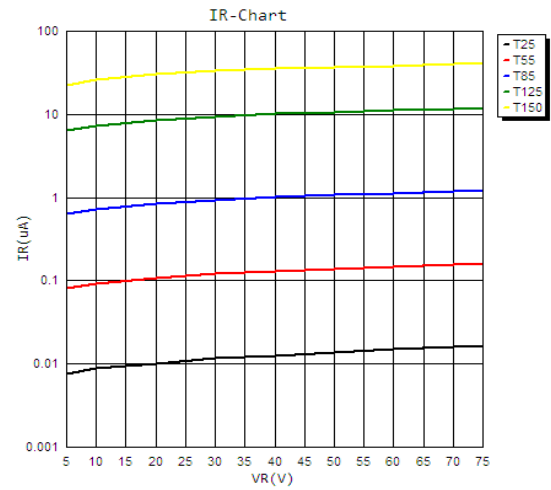


Fig.2 Reverse current(IR) vs Reverse voltage(VR)

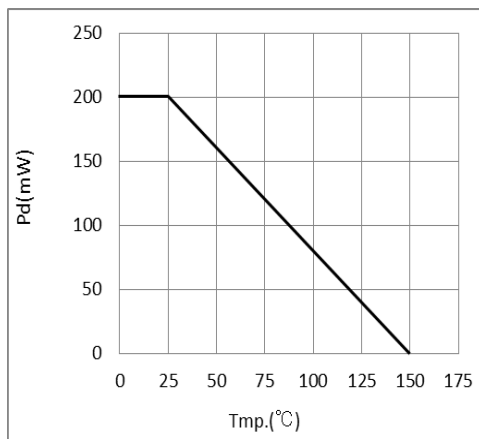


Fig.3 Power Derating Curve

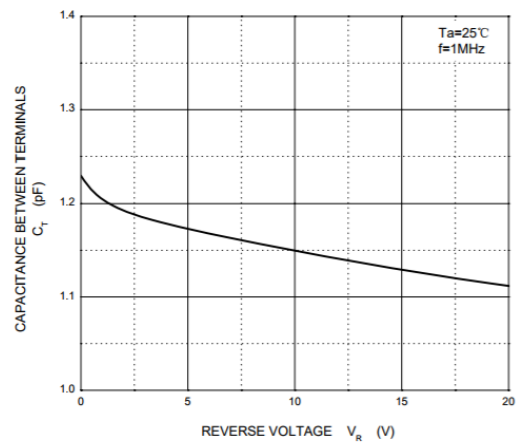


Fig.4 Capacitance vs Reverse voltage(VR)



ORDERING INFORMATION

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1N4148D1	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

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

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