

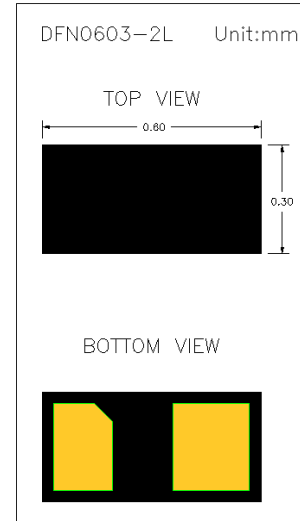
DATA SHEET(Preliminary)

1N4148D3

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

Device Marking Code	
1N4148D3	T4

Pin & Polarity



Maximum Ratings (Ta = 25 °C)

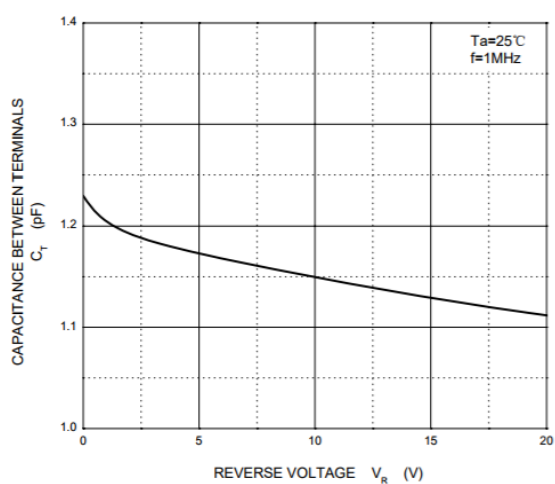
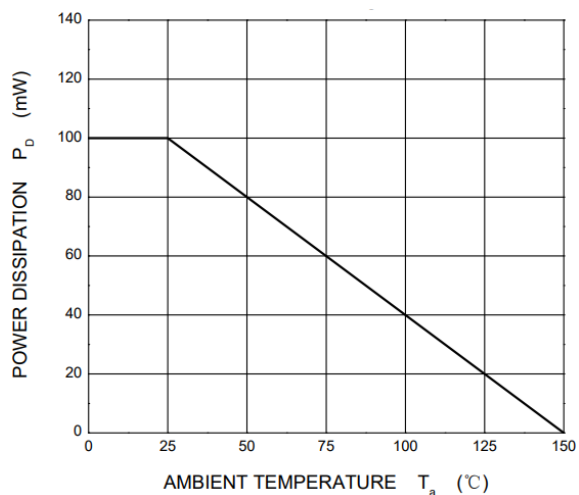
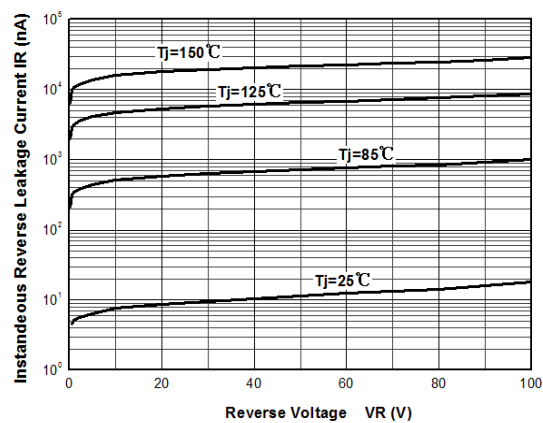
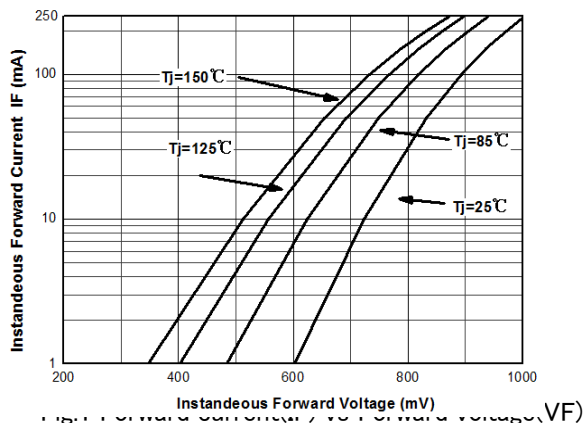
Symbol	Parameter	Value	Units
V_{RSM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Reverse Voltage	75	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
I_{FRM}	Repetitive Peak Forward Current	300	mA
I_O	Average Forward Current	100	mA
I_{FSM}	Non-Repetitive Peak Forward Current *1	2	A
P_D	Power Dissipation	100	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	$I_R=100\mu A$	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



Ordering Information

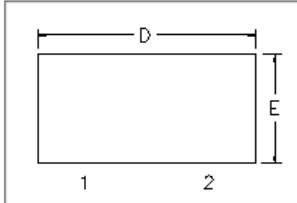
Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
1N4148D3	DFN0603-2L	Tape & Reel	8mm	4mm	Conductive	

15000pcs /7" Reel

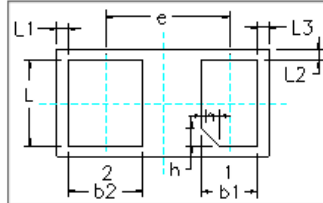
Package Dimensions

Package outline : DFN0603-2L-1

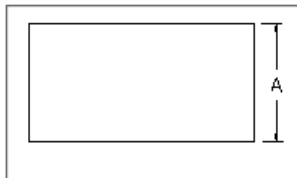
Top view



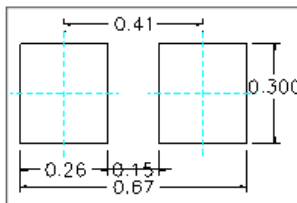
Bottom view



Side view



Soldering Pattern



SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.28	0.30	0.32
b1	0.13	0.18	0.23
b2	0.14	0.19	0.24
D	0.55	0.60	0.65
e	0.350BSC		
L1	0.030BSC		
L2	0.025BSC		
L3	0.035BSC		
E	0.25	0.30	0.35
L	0.20	0.25	0.30
h	0.00	0.05	0.10

Notice:

1. Lead no need to do plating
2. Other Tolerance: ± 0.05
3. Dimensions are exclusive of Burrs, Mold Flash and Tie Bar extrusions
4. Unit: mm

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