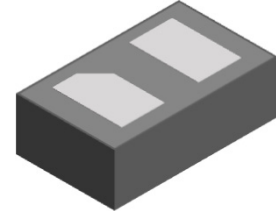


Feature

- Forward Current: 10mA
- Reverse voltage:10V
- Low forward voltage
- Low leakage current
- Ultra Small mold type. (DFN0603-2L)


DFN0603-2L(Bottom View)

Applications

- Low current rectification
- Voltage clamping
- Protection circuits
- Ultra high-speed switching


Circuit Diagram

Mechanical Characteristics

- Mounting position: Any
- Qualified max reflow temperature:260°C
- Device meets MSL 1 requirements


Marking (Top View)

Electrical characteristics per line@25°C (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Forward voltage	V_F	$I_F = 1\text{mA}$	-	0.4	0.6	V
		$I_F = 10\text{mA}$	-	1.0	1.5	
Reverse current	I_R	$V_R = 0.5\text{V}$	-	-	0.03	μA
		$V_R = 10\text{V}$	-	-	0.38	
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$	-	0.25	0.5	pF

Absolute maximum rating@25°C

Rating	Symbol	Value	Units
Reverse voltage (DC)	V_{RM}	10	V
Average rectified forward current	I_o	10	mA
Forward current surge peak (60Hz 1cyc)	I_{FSM}	0.9	A
Junction and Storage Temperature Range	T_J, T_{STG}	-55~+125	°C

Typical Characteristics

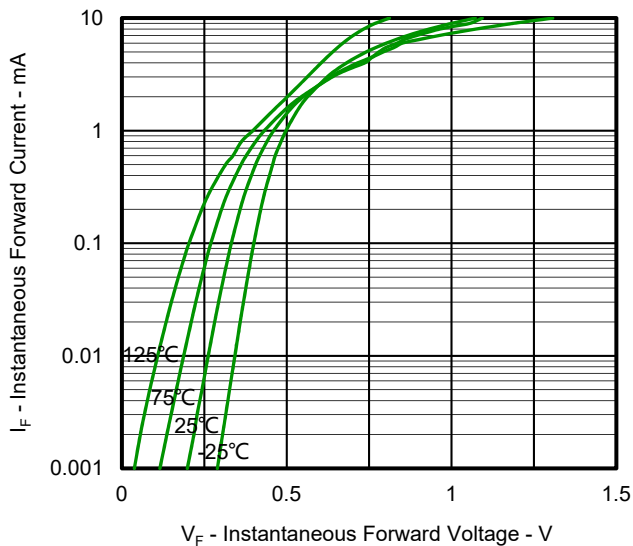


Fig.1 Typical Forward Characteristics

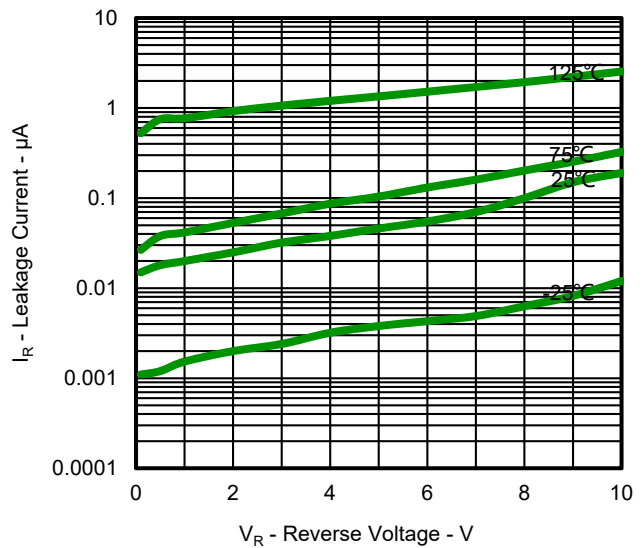


Fig 2. Leakage Current

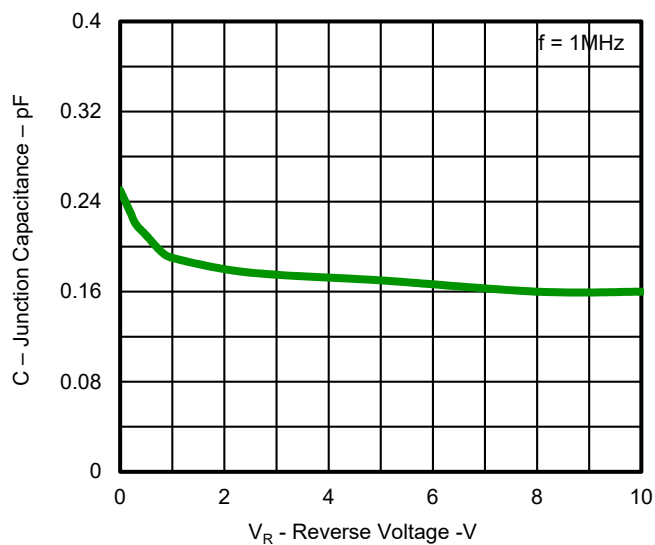
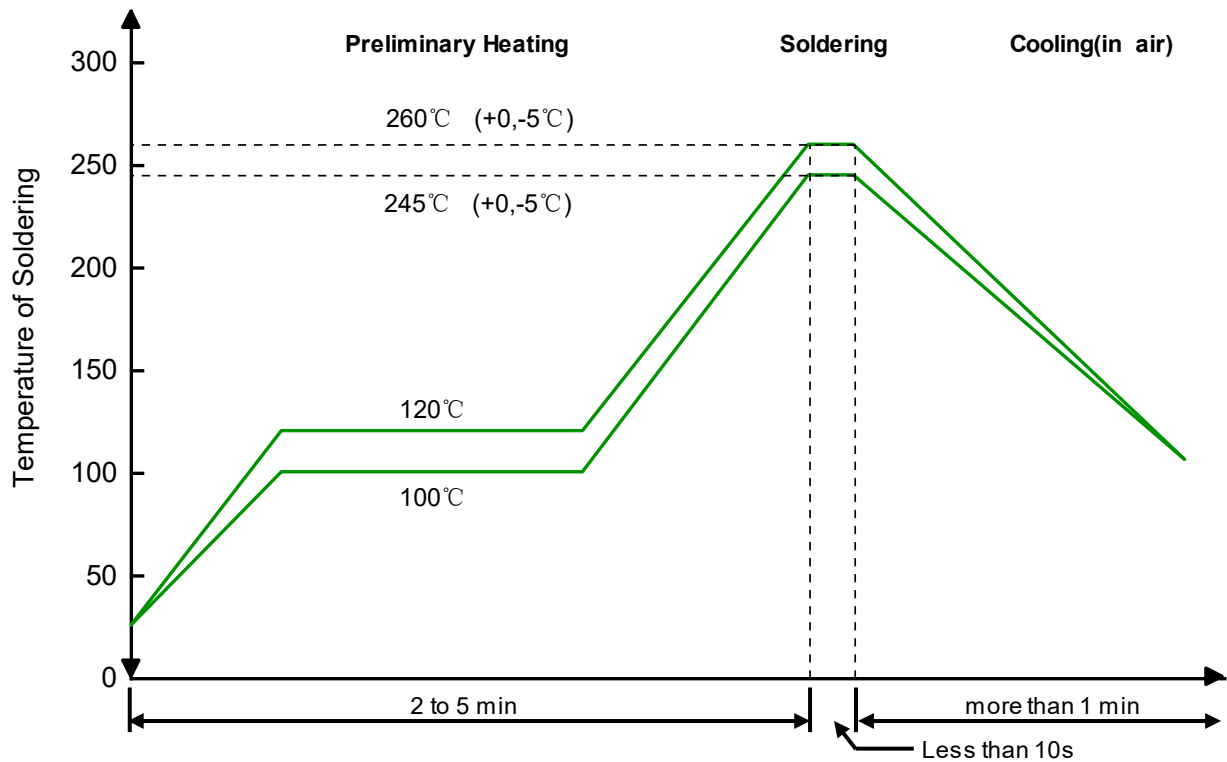


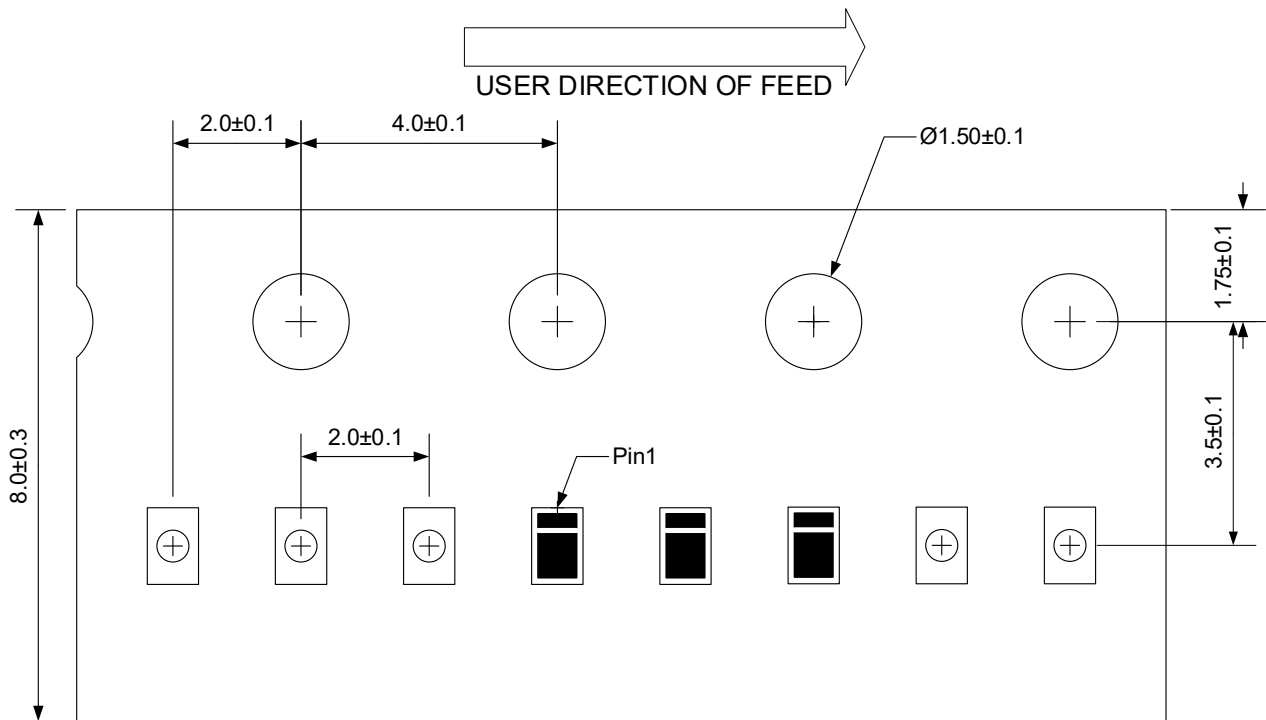
Fig 3.Capacitance vs. Reverses voltage

Solder Reflow Recommendation



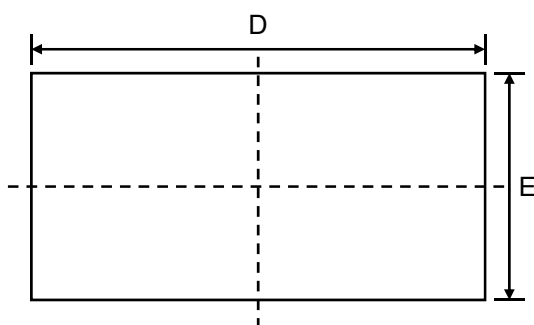
Remark: Pb free for 260°C; Pb for 245°C.

Load with information

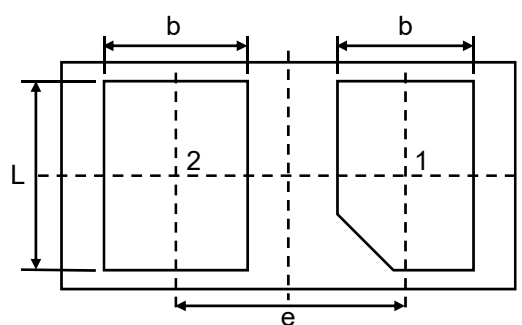


Unit:mm

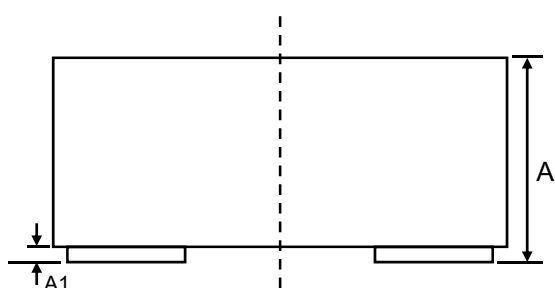
Product Dimension (DFN0603-2L)



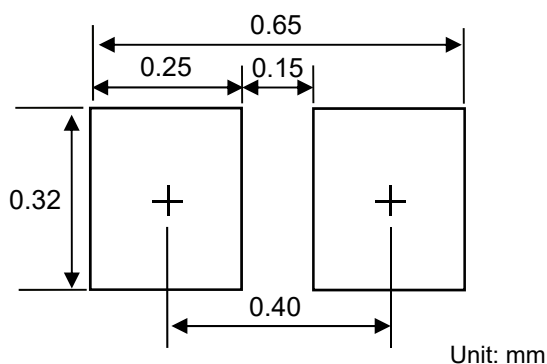
Top View



Bottom View



Side View




Suggested PCB Layout

Dim	Millimeters		Inches	
	Min	Max	Min	Max
A	0.25	0.35	0.010	0.014
A1	0.00	0.05	0.000	0.002
b	0.14	0.25	0.006	0.010
D	0.55	0.65	0.022	0.026
e	0.35 BSC		0.014 BSC	
E	0.25	0.35	0.010	0.014
L	0.19	0.30	0.007	0.012

Ordering information

Package	Reel	Shipping
DFN0603-2L	7"	12000 / Tape & Reel


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