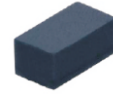


CPDZ5V0HE-HF

RoHS Device
Halogen Free



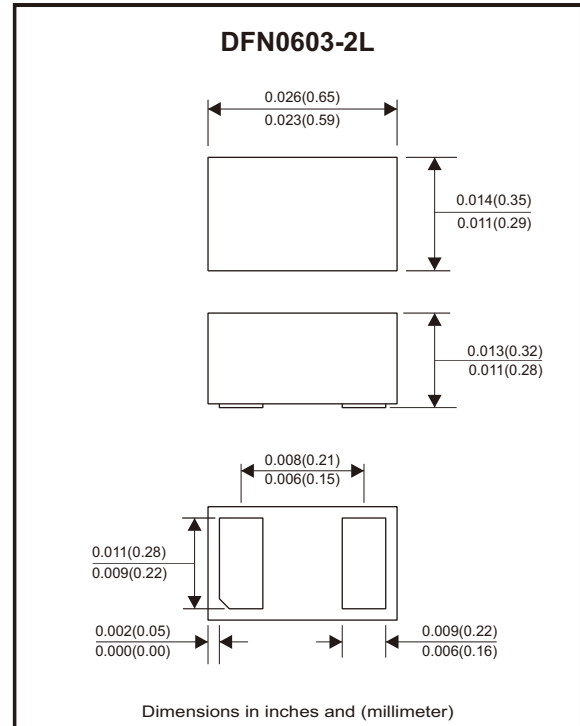
Features

- Low capacitance: 13.5pF (typ.).
- Reverse standoff voltage: 5V
- IEC 61000-4-2 (air): ± 30 kV
IEC 61000-4-2 (contact): ± 30 kV
IEC 61000-4-5 (surge): 7A(8/20 μ s)

Mechanical data

- Case: DFN0603-2L standard package, molded plastic.
- Mounting position: Any.

Circuit Diagram



Maximum Rating (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Value	Unit
Electrostatic discharge voltage	IEC 61000-4-2(contact) IEC 61000-4-2(air)	V_{ESD}	± 30	kV
Peak pulse power	$T_P = 8/20\mu\text{s}$	P_{PP}	70	W
Peak pulse current	IEC 61000-4-5, $T_P = 8/20\mu\text{s}$	I_{PP}	7	A
Operating junction temperature range		T_J	-55 to +150	$^\circ\text{C}$
Storage temperature range		T_{STG}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse standoff voltage	I/O to GND	V_{RWM}		5		V
Breakdown voltage	$I_R = 1\text{mA}$, I/O to GND	V_{BR}	5.6	6.5	8.4	V
Reverse leakage current	$V_{RWM} = 5\text{V}$, I/O to GND	I_R			100	nA
Surge clamping voltage (8/20 μ s)	$I_{PP} = 1\text{A}$, Any I/O to GND (positive)	V_C			8	V
	$I_{PP} = 7\text{A}$, Any I/O to GND (positive)	V_C			11	
TLP dynamic resistance	I/O to GND (positive)	R_{DYN}		0.19		Ω
Junction capacitance	$V_R = 0\text{V}$, $f = 1\text{MHz}$, I/O to GND	C_J		13.5	20	pF

Typical Rating and Characteristic Curves (CPDZ5V0HE-HF)

Fig.1 - Clamping Voltage (TLP)

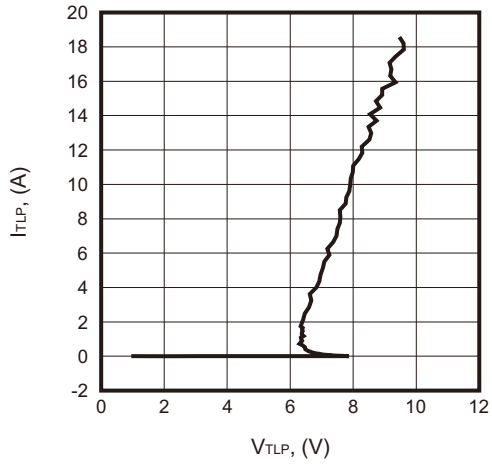


Fig.2 - Junction Capacitance

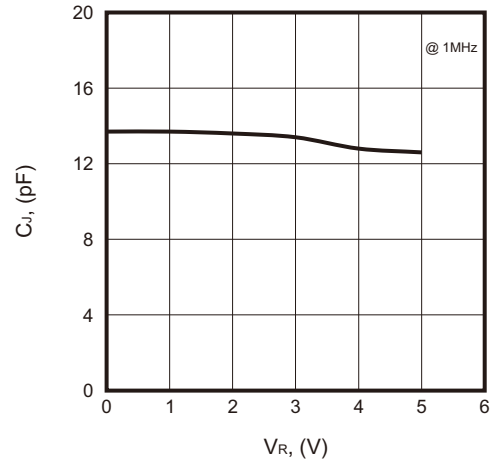
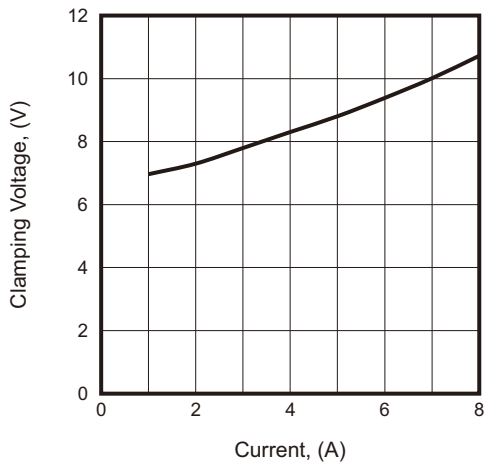
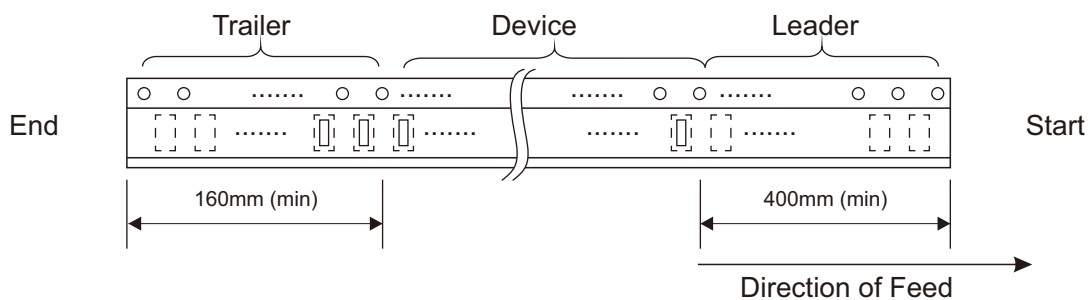
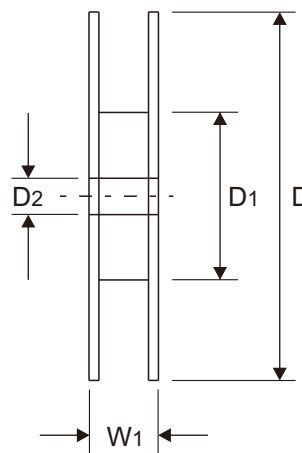
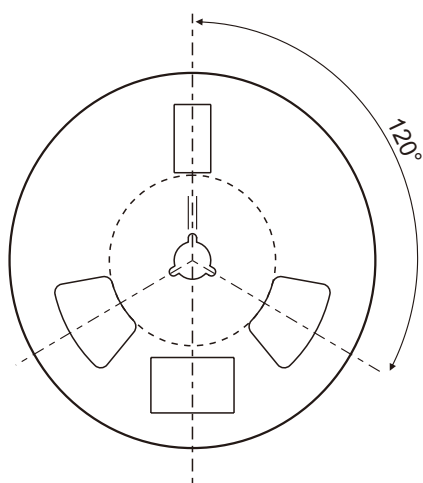
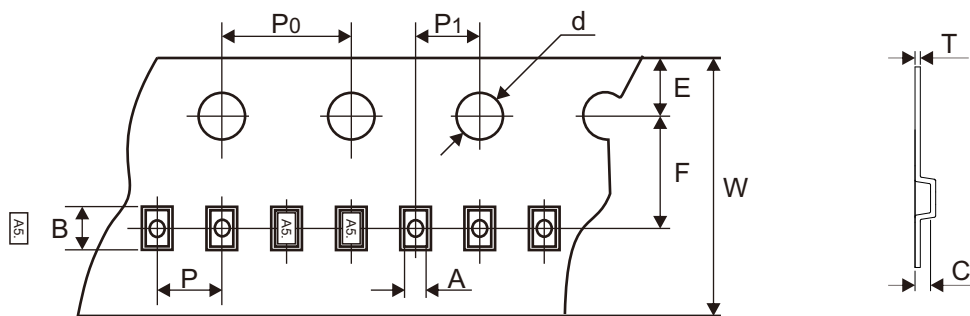


Fig.3 - I_{PP} vs Clamping Voltage



Reel Taping Specification



DFN0603 -2L	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	0.38 ± 0.03	0.68 ± 0.03	0.36 ± 0.03	1.50 + 0.10 - 0.00	178.00 ± 1.00	54.50 ± 0.50	13.00 ± 0.20
	(inch)	0.015 ± 0.001	0.027 ± 0.001	0.014 ± 0.001	0.059 + 0.004 - 0.000	7.008 ± 0.039	2.146 ± 0.020	0.512 ± 0.008

DFN0603 -2L	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.05	2.00 ± 0.05	4.00 ± 0.10	2.00 ± 0.05	0.20 ± 0.02	8.00 + 0.30 - 0.10	11.50 ± 0.50
	(inch)	0.069 ± 0.004	0.138 ± 0.002	0.079 ± 0.002	0.157 ± 0.004	0.079 ± 0.002	0.008 ± 0.001	0.315 + 0.012 - 0.004	0.453 ± 0.020