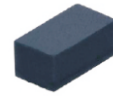


CPDZD5V0HE-HF

RoHS Device
Halogen Free



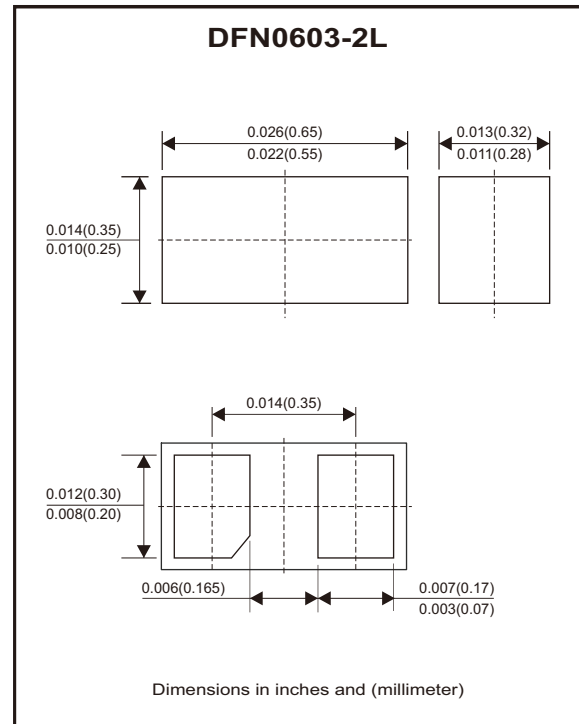
Features

- Low junction capacitance (typical value: 13pF).
- Working voltage: 5V.
- Low clamping voltage.

Mechanical data

- Case: DFN0603-2L package, molded plastic.
- Lead finish: Matte tin.
- Mounting position: Any.

Circuit Diagram



Maximum Rating (at TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Peak pulse power (tp=8/20μs waveform)	P _{PPP}	100	W
Peak pulse current (8/20μs)	I _{PP}	8	A
ESD per IEC 61000-4-2 (Air)	V _{ESD}	±30	kV
ESD per IEC 61000-4-2 (Contact)		±30	
Operating temperature range	T _J	-55 to +125	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	Min	Typ	Max	Unit
Reverse working voltage		V _{RWM}			5	V
Breakdown voltage	I _T = 1mA	V _{BR}	5.6			V
Reverse leakage current	V _{RWM} = 5V	I _R			0.5	μA
Clamping voltage	I _{PP} = 1A (8x20μs pulse)	V _C			7.5	V
	I _{PP} = 8A (8x20μs pulse)	V _C			12.5	
Junction capacitance	V _R = 0V, f = 1MHz	C _J		13	22	pF

Typical Rating and Characteristic Curves (CPDZD5V0HE-HF)

Fig.1 - Power Rating Derating Curve

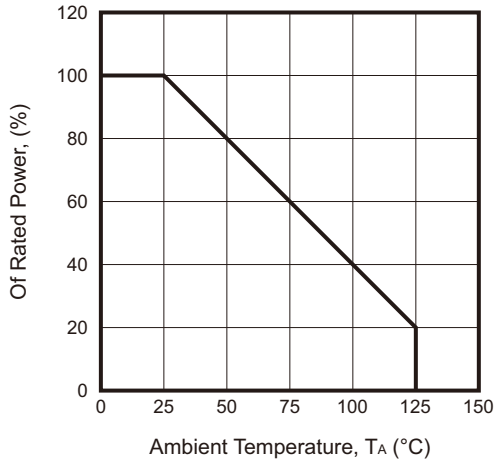


Fig.2 - Pulse Waveform

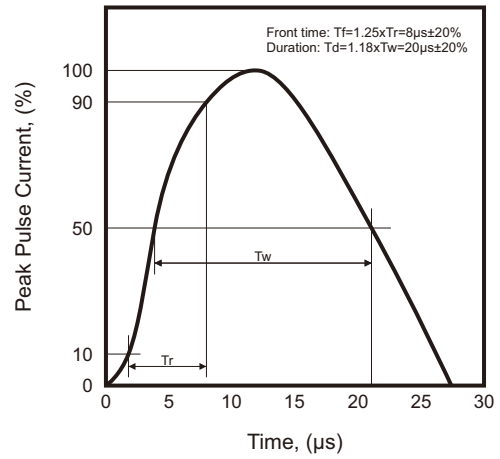


Fig.3 - Capacitance Between Terminals Characteristics

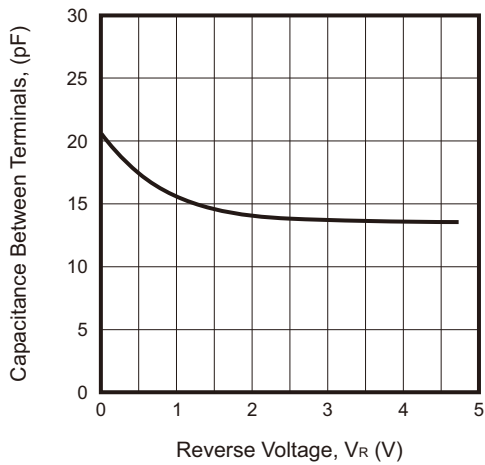
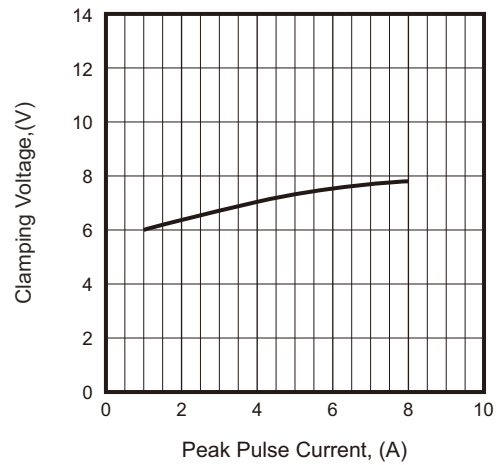
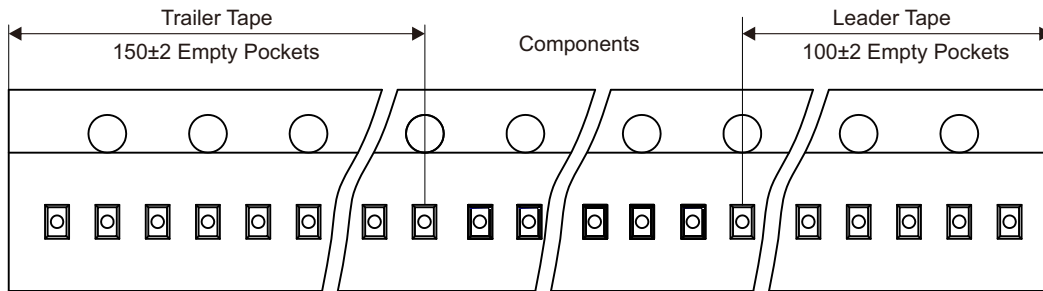
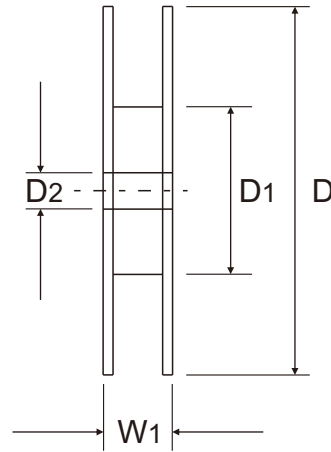
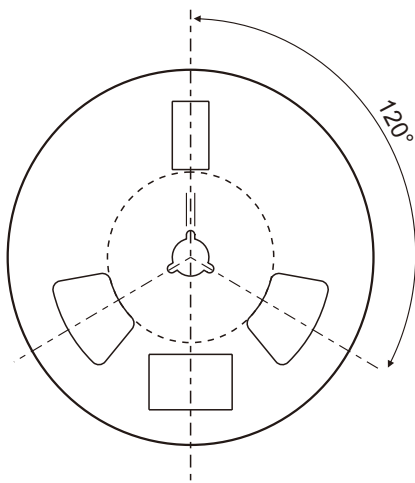
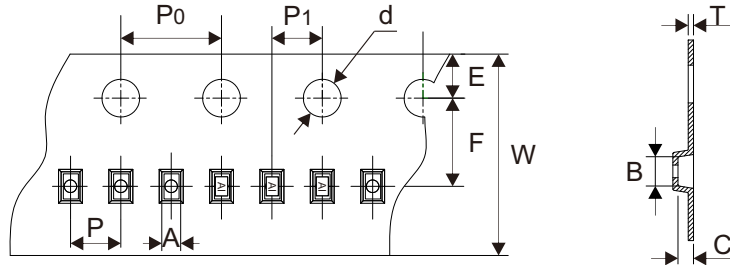


Fig.4 - Clamping Voltage vs. Peak Pulse Current



Reel Taping Specification

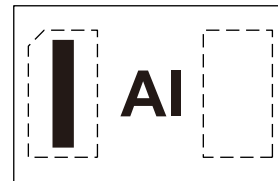


DFN0603-2L	SYMBOL	A	B	C	d	D	D1	D2
	(mm)	0.35 ± 0.05	0.65 ± 0.05	0.60 ± 0.10	2.00 ± 0.10	178 ± 2.00	54.40 ± 1.00	13.00 ± 1.00
	(inch)	0.014 ± 0.002	0.026 ± 0.002	0.024 ± 0.004	0.079 ± 0.004	7.008 ± 0.079	2.142 ± 0.039	0.512 ± 0.039

DFN0603-2L	SYMBOL	E	F	P	P0	P1	T	W	W1
	(mm)	1.75 ± 0.10	3.50 ± 0.10	2.00 ± 0.05	4.00 ± 0.10	2.00 ± 0.10	0.25 ± 0.10	8.00 ± 0.30	12.30 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.004	0.079 ± 0.002	0.157 ± 0.004	0.079 ± 0.004	0.010 ± 0.004	0.315 ± 0.012	0.484 ± 0.039

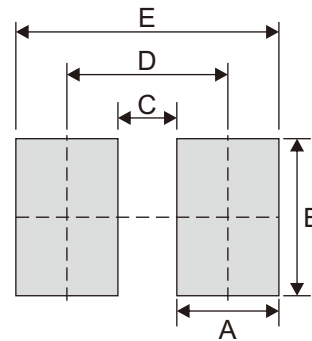
Marking Code

Part Number	Marking Code
CPDZD5V0HE-HF	AI



Suggested P.C.B. PAD Layout

SIZE	DFN0603-2L	
	(mm)	(inch)
A	0.26	0.010
B	0.40	0.016
C	0.15	0.006
D	0.41	0.016
E	0.67	0.026



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
DFN0603-2L	15,000	7