



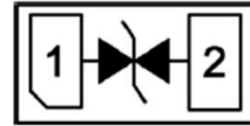
ET0P35P4F4



Ultra-Low Capacitance ESD Diode



DFN1006-2L



Features

- Ultra-low capacitance : 0.3pF (typ.)
- Reverse standoff voltage : 5V
- IEC61000-4-2 (ESD) : ± 20 kV (air)
- IEC61000-4-2 (ESD) : ± 20 kV (contact)
- IEC61000-4-5 (Surge) : 4A (8/20 μ s)

Application

- Smart Phone
- Laptop
- Wearable
- LCD TV
- USB 3.0/3.1
- PCI Express
- HDMI 1.3/1.4/2.0
- DVI

Ordering Information

Part No.	Remark	Package	Packing
ET0P35P4F4-H	Halogen Free	DFN1006-2L	10000 / Tape & Reel
ET0P35P4F4-Q	AEC-Q101 qualified		

Maximum Ratings (TA=25°C unless otherwise noted)

Parameter	Symbol	Test conditions	Limit	Unit
ESD Rating per IEC 61000-4-2	V_{ESD}	Contact	± 20	kV
		Air	± 20	
Peak pulse power	P_{PP}	$t_p = 8/20 \mu s$	70	W
Peak pulse current	I_{PP}	$t_p = 8/20 \mu s$	4	A
Operating junction temperature range	T_J		-55~+ 125	°C
Storage temperature range	T_{STG}		-55~+ 150	°C

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

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Unit
Reverse working voltage	V_{RWM}		-	5.0	5.5	V
Breakdown voltage	V_{BR}	$I_T = 1mA$	6.0	-	9.0	V
Reverse leakage current	I_R	$V_{RWM} = 5V$	-	5	30	nA
Surge clamping voltage ($t_p = 8/20\mu s$)	V_C	$I_{PP} = 1A$	-	14	-	V
		$I_{PP} = 4A$	-	23	-	
ESD clamping Voltage	V_C	IEC 61000-4-2 +8kV ($I_{TLP} = 16A$) Contact mode	-	30	-	V
Dynamic resistance	R_D	IEC 61000-4-2, 2~+8kV ($I_{TLP} = 4 \sim 16A$) Contact mode	-	1.097	-	Ω
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$	-	0.3	-	pF



Rating and Characteristics Curves

FIG. 1-Clamping Voltage (TLP)

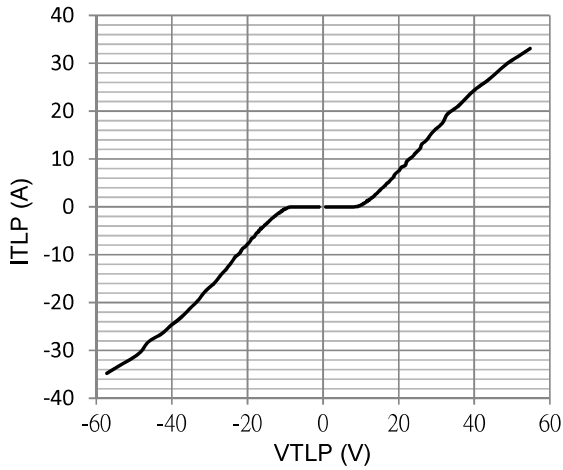


FIG. 2-Junction Capacitance

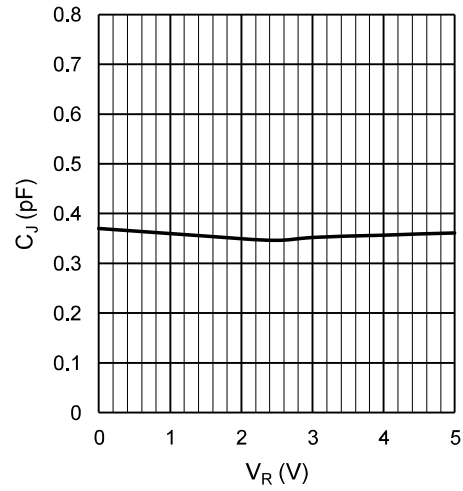


FIG. 3-1. IV-Curve

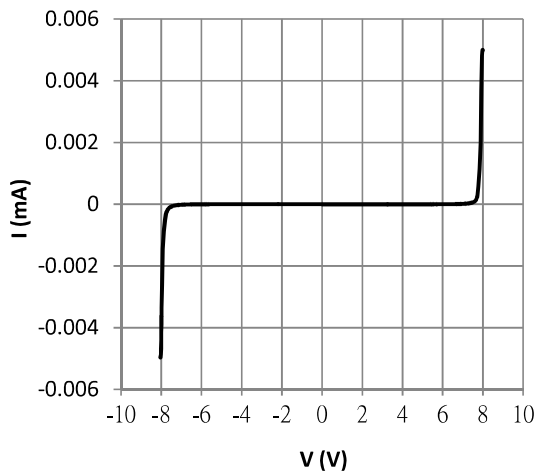
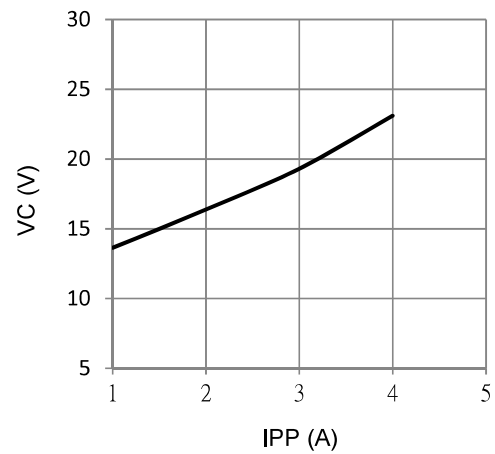


FIG. 4-Surge Clamping voltage



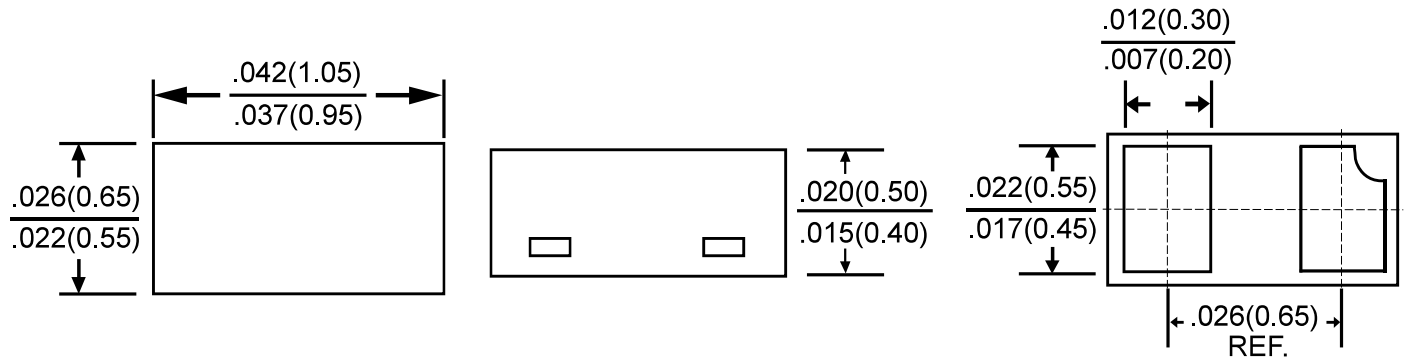


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Package Outline Dimensions

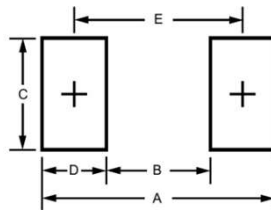


DFN1006-2L

Dimensions in inches and (millimeters)

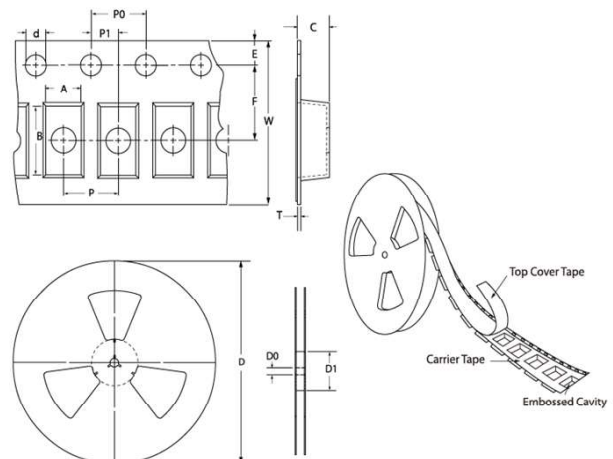
Suggested Pad Layout

Outline Dimension	DFN1006-2L (mm)
A	-
B	-
C	0.70
D	0.55
E	0.85



Tape & Reel Specification

Item	Symbol	DFN1006-2L (mm)
Carrier width	A	1.0 (max)
Carrier length	B	2.0 (max)
Carrier depth	C	1.0 (max)
Sprocket hole	d	1.50 ± 0.1
Reel outside diameter	D	178 ± 2.0
Feed hole diameter	D0	13.55 ± 1.05
Reel inner diameter	D1	50 (min)
Sprocket hole position	E	1.75 ± 0.1
Punch hole position	F	3.50 ± 0.1
Sprocket hole pitch	P	3.00 ± 1.1
Sprocket hole pitch	P0	4.00 ± 0.1
Embossment center	P1	2.00 ± 0.1
Overall tape thickness	T	0.2 ± 0.05
Tape width	W	8.0 ± 1.0





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