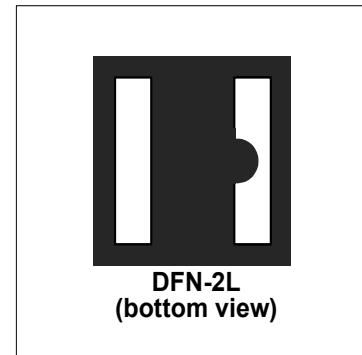




Features

- 400 Watts Peak Power ($tp = 10/1000\mu s$)
- Fast Response time: Typically <1ns
- Excellent Clamping Capability
- Low Inductance
- Low profile package



IEC Compatibility (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 30kV$ (air), $\pm 30kV$ (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 11A (10/1000 μs)

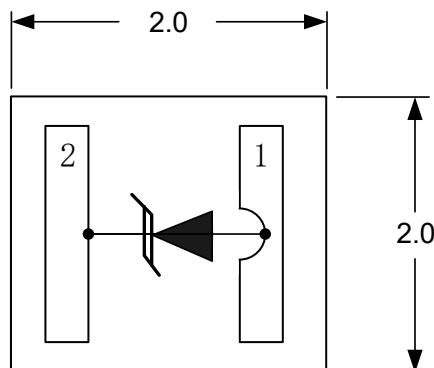
Mechanical Characteristics

- DFN-2L package
- Molding compound flammability rating: UL 94V-0
- Marking : Making Code
- Packaging : Tape and Reel per EIA 481
- RoHS Compliant

Applications

- I/O Interfaces
- Power lines
- Automotive and Telecommunication
- Computer & Consumer Electronics
- Industrial Electronics
- Microcontroller Input Protection

PIN Configuration



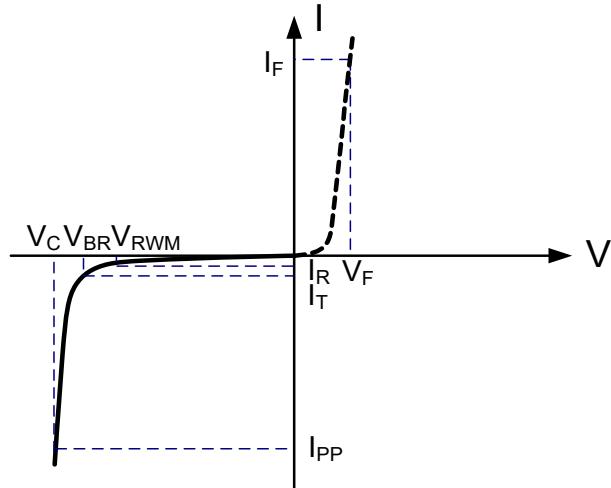


Absolute Maximum Rating

Rating	Symbol	Value	Units
Lead Soldering Temperature	T _L	260(10sec)	°C
Operating Temperature	T _J	-55 to + 125	°C
Storage Temperature	T _{STG}	-55 to +150	°C
Peak Pulse Power ($t_p=10/1000\mu s$)	P _{PP}	400	Watts
Peak Pulse Current ($t_p=10/1000\mu s$)	I _{PP}	11	A

Electrical Parameters (T=25°C)

Symbol	Parameter
I _{PP}	Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current
I _F	Forward Current
V _F	Forward Voltage @ I _F



Electrical Characteristics

DW22P4N-S						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V _{RWM}				22	V
Breakdown Voltage	V _{BR}	I _T =1mA	24.4		26.9	V
Reverse Leakage Current	I _R	V _{RWM} =22V T=25°C			0.5	µA
Peak Pulse Current	I _{PP}	t _p =10/1000µs			11	A
Clamping Voltage	V _C	I _{PP} =11A, t _p =10/1000µs			35.5	V



Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

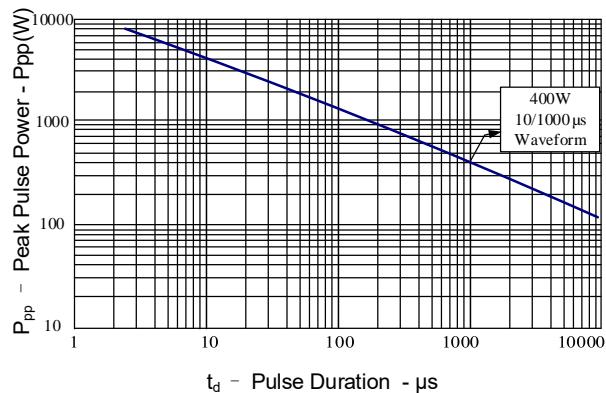


Figure 2: Power Derating Curve

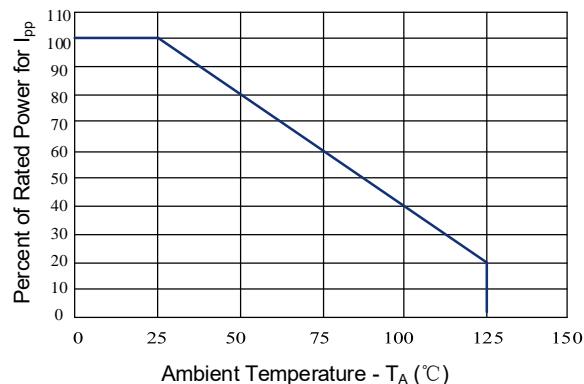


Figure 3: Clamping Voltage vs. Peak Pulse Current

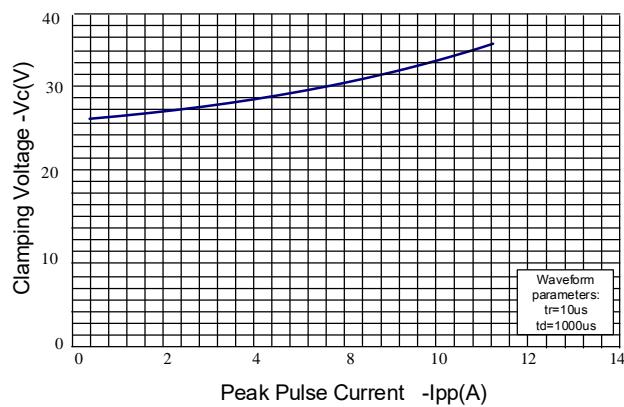


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

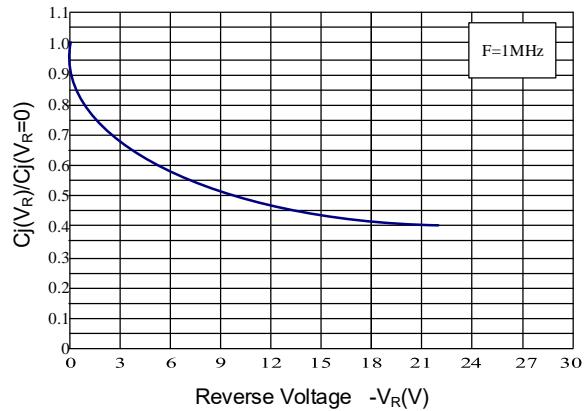
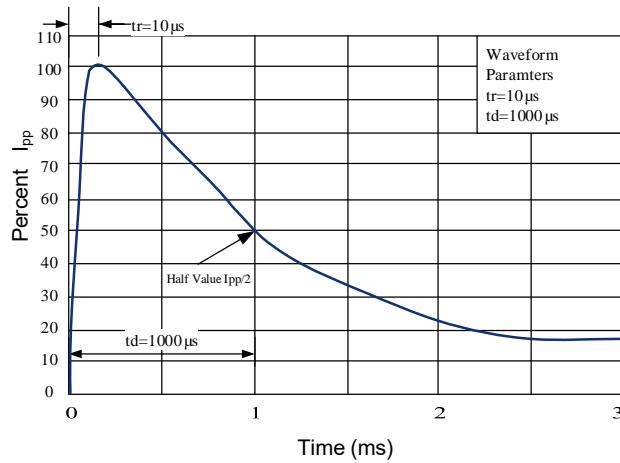


Figure 5: 10/1000μs Pulse Waveform





Outline Drawing –DFN-2L

PACKAGE OUTLINE		DFN-2L (bottom view)			
SYMBOL		DIMMETER		INCHES	
		MIN	MAX	MIN	MAX
A		0.45	0.55	0.017	0.021
A1		0.00	0.02	0.000	0.001
D		1.90	2.10	0.075	0.083
E		1.90	2.10	0.075	0.083
R		0.20	0.30	0.008	0.012
b		1.55	1.65	0.061	0.065
e		1.20BSC		0.047 BSC.	
L		0.35	0.45	0.014	0.018

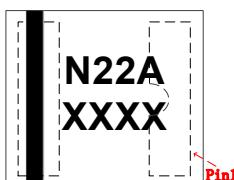
TOP VIEW			BOTTOM VIEW		
SIDE VIEW					

DIMENSIONS		
DIM	INCHES	MILLIMETERS
P	0.026TYP	1.20 TYP
X	0.016	0.40
Y	0.063	1.60
R	0.01	0.25

Notes

- Dimensioning and tolerances per ANSI Y14.5M, 1985.
- Controlling Dimension: Inches
- Dimensions are exclusive of mold flash and metal burrs.

Marking Codes



Package Information

Qty: 3k/Reel