

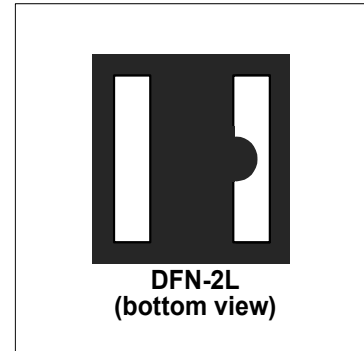


## Features

- 400 Watts Peak Power ( $t_p = 10/1000\mu s$ )
- 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 $\mu s$ )



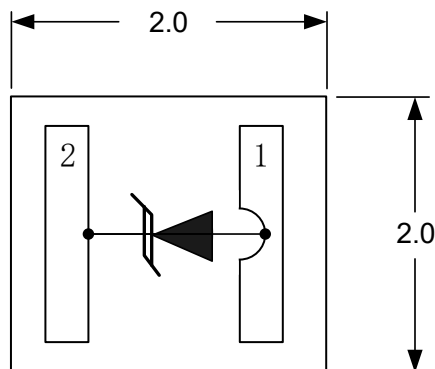
## Mechanical Characteristics

- 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

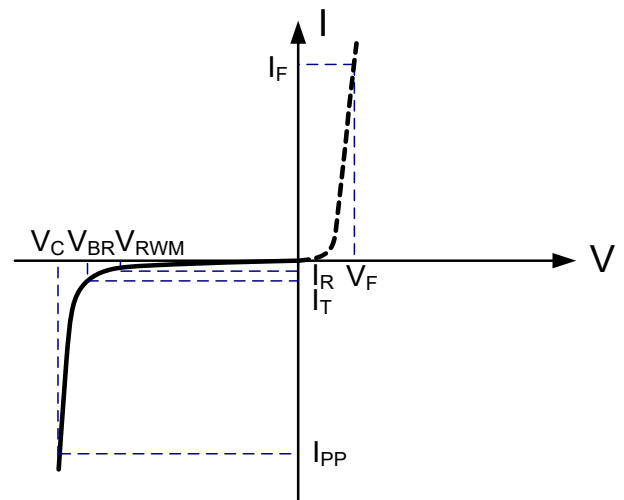
## PIN Configuration



Absolute Maximum Rating			
Rating	Symbol	Value	Units
Lead Soldering Temperature	$T_L$	260(10sec)	$^{\circ}\text{C}$
Operating Temperature	$T_J$	-55 to + 125	$^{\circ}\text{C}$
Storage Temperature	$T_{STG}$	-55 to +150	$^{\circ}\text{C}$
Peak Pulse Power ( $t_p=10/1000\mu\text{s}$ )	$P_{PP}$	400	Watts
Peak Pulse Current ( $t_p=10/1000\mu\text{s}$ )	$I_{PP}$	11	A

### Electrical Parameters (T=25 $^{\circ}\text{C}$ )

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	$V_{BR}$	$I_T=1\text{mA}$	24.4		26.9	V
Reverse Leakage Current	$I_R$	$V_{RWM}=22\text{V}$ $T=25^{\circ}\text{C}$			0.5	$\mu\text{A}$
Peak Pulse Current	$I_{PP}$	$t_p=10/1000\mu\text{s}$			11	A
Clamping Voltage	$V_C$	$I_{PP}=11\text{A}$ , $t_p=10/1000\mu\text{s}$			35.5	V

## Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

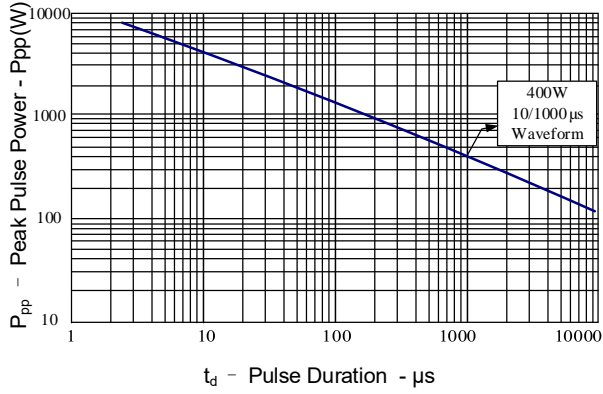


Figure 2: Power Derating Curve

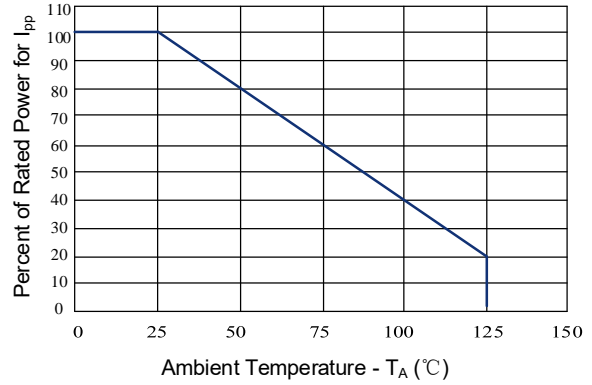


Figure 3: Clamping Voltage vs. Peak Pulse Current

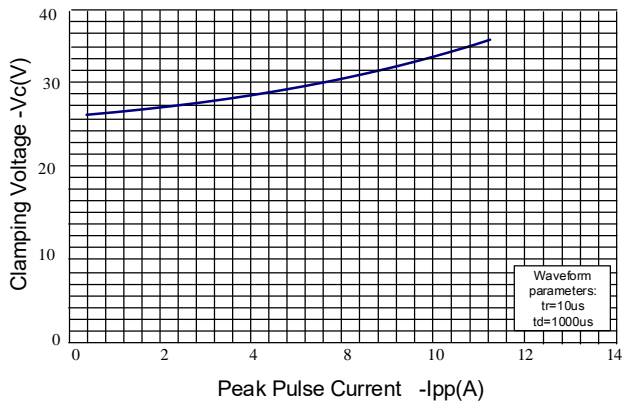


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

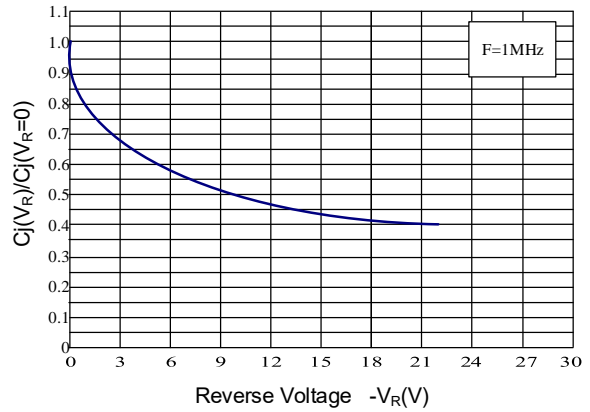
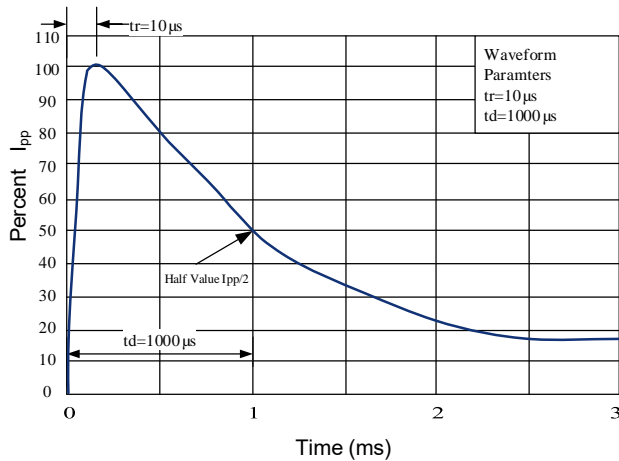
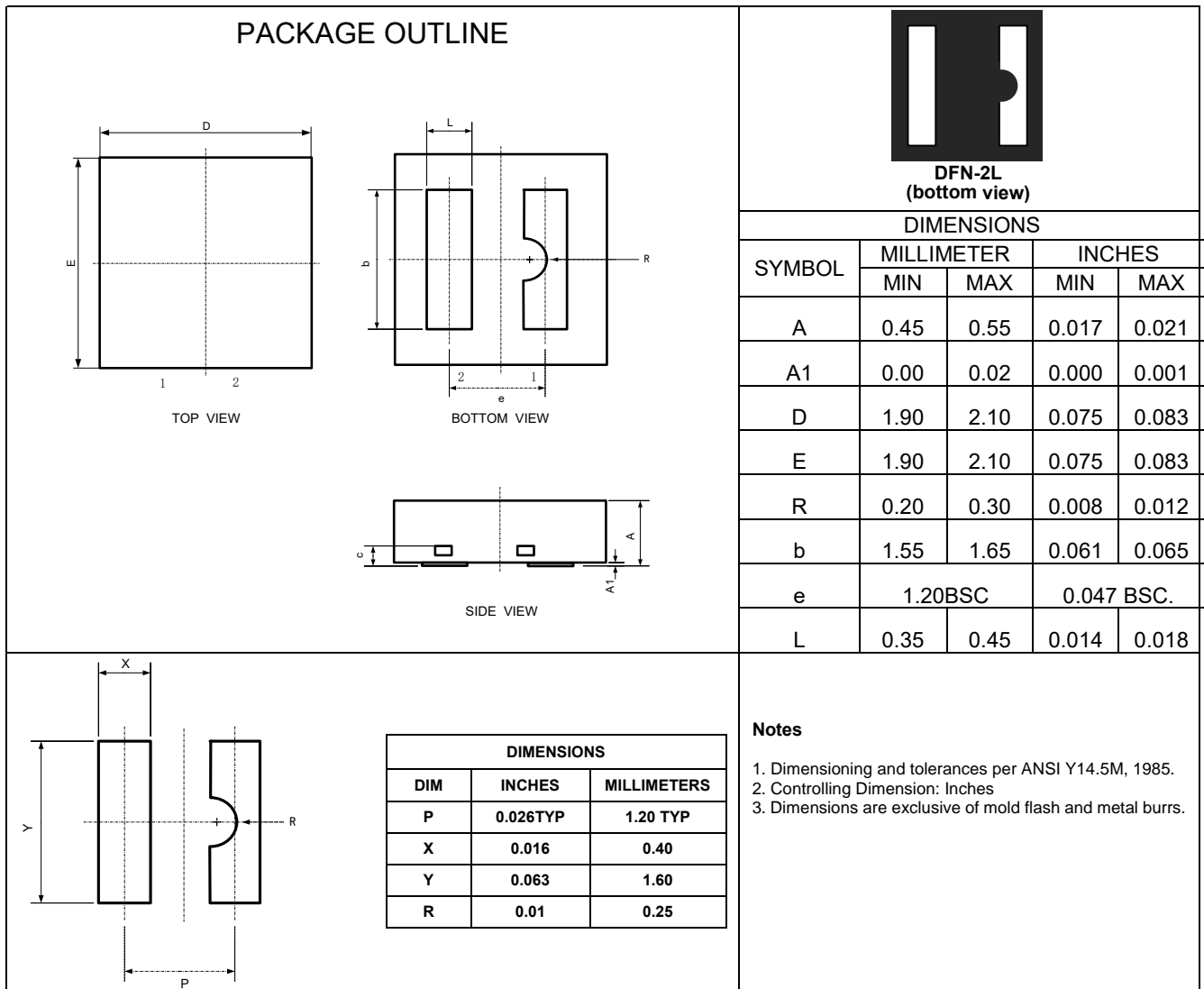


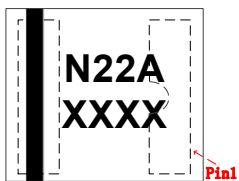
Figure 5: 10/1000 μs Pulse Waveform



### Outline Drawing –DFN-2L



### Marking Codes



### Package Information

Qty: 3k/Reel