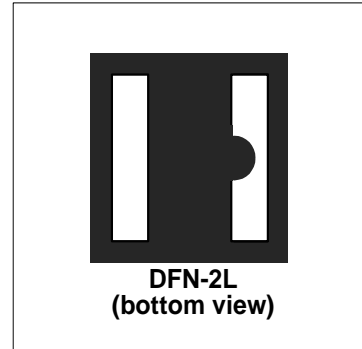


Features

- 6000 Watts Peak Power ($t_p = 8/20\mu s$)
- 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) 200A (8/20 μs)



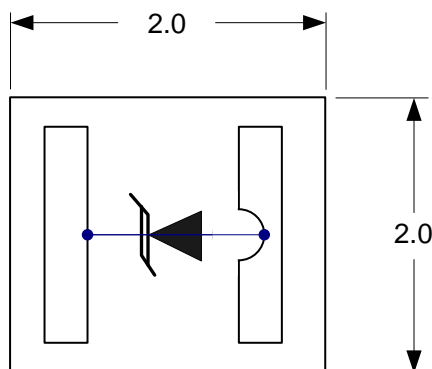
Mechanical Characteristics

- 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

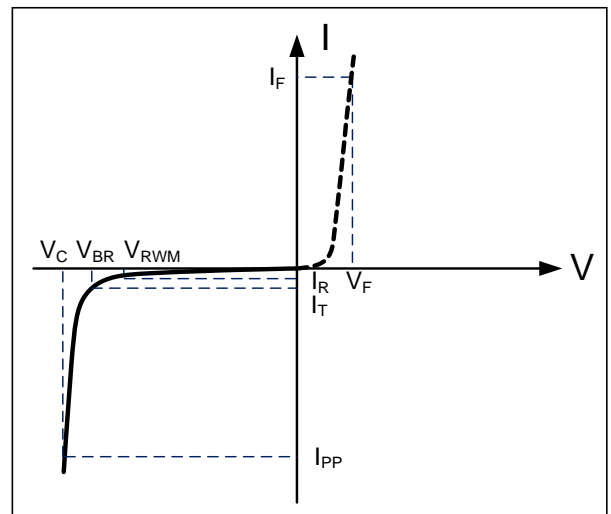
PIN Configuration



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 ($t_p=8/20\mu s$)	P_{PP}	6000	Watts
Peak Pulse Current ($t_p=8/20\mu s$)	I_{PP}	200	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

DW07P4N-S						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				7	V
Breakdown Voltage	V_{BR}	$I_T=1mA$	8		10	V
Reverse Leakage Current	I_R	$V_{RWM}=7V$ $T=25^\circ C$			200	nA
Peak Pulse Current	I_{PP}	$t_p=8/20\mu s$			200	A
Clamping Voltage	V_C	$I_{PP}=200A, t_p=8/20\mu s$			30	V
Junction Capacitance	C_j	$V_R = 0V, f = 1MHz$		990	1000	pF

Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

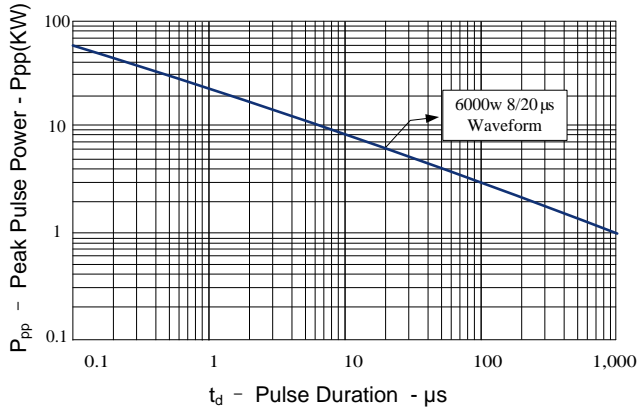


Figure 2: Power Derating Curve

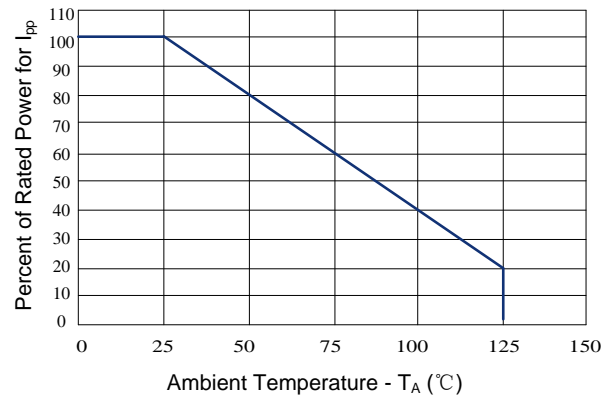


Figure 3: Clamping Voltage vs. Peak Pulse Current

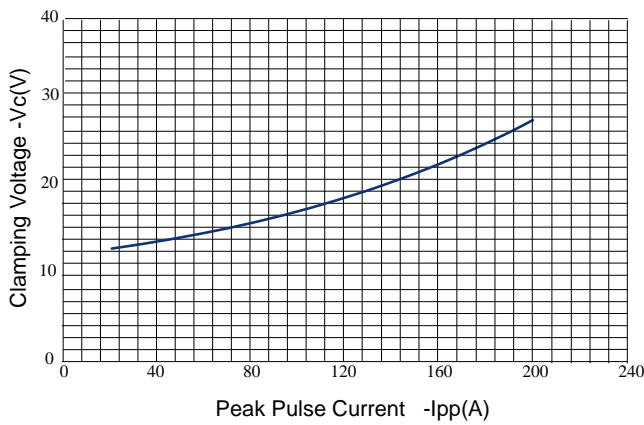


Figure 4: Normalized Junction Capacitance vs. Reverse Voltage

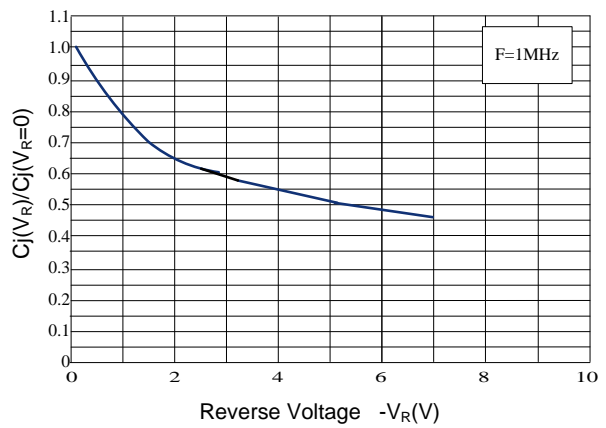
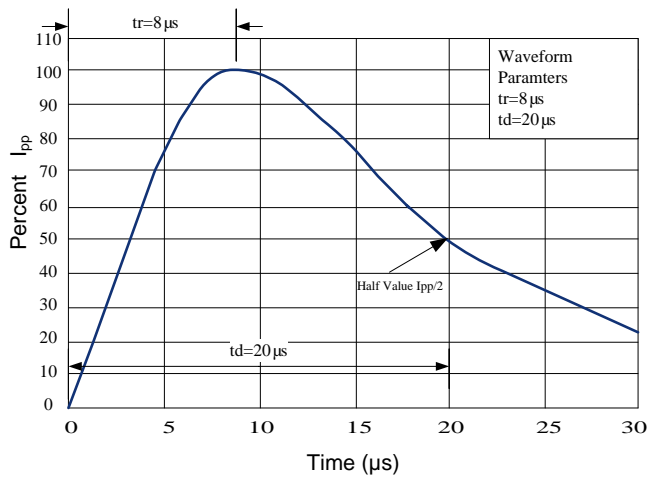


Figure 5: 8/20μs Pulse Waveform



Outline Drawing –DFN-2L

PACKAGE OUTLINE

DFN-2L (bottom view)

DIMENSIONS

SYMBOL	MIL IMETER		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

Notes

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

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

Marking Codes

Part Number	DW07P4N-S
Marking Code	N07A

Package Information

Qty: 3k/Reel