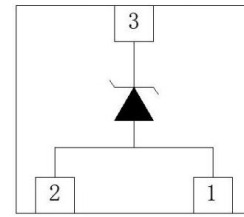


## Features

- 5400 Watts Peak Pulse Power per Line ( $t_p = 8/20\mu s$ )
- Bidirectional Configuration
- Protects One Power or I/O Port
- ESD Protection > 40 kilovolts
- Low Clamping Voltages



## IEC Compatibility (EN61000-4)

- IEC 61000-4-2 (ESD):  $\pm 30kV$  (air),  $\pm 30kV$  (contact)
- IEC 61000-4-5 (Surge): 180A,  $8/20\mu s$

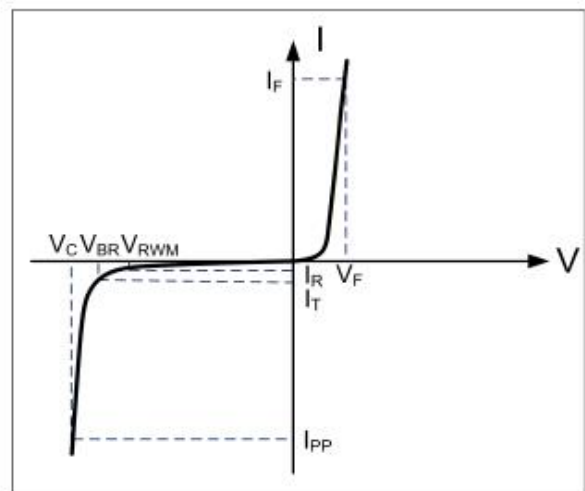
## Applications

- Ethernet - 10/100/1000 Base T
- Cellular Phones
- Handheld - Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

## Electrical Parameters

Parameter	Symbol	Value	Units
Peak pulse power ( $t_p=8/20\mu s$ )	$P_{PP}$	5400	Watts
Operating Temperature	$T_J$	$-55^{\circ}C \sim 125^{\circ}C$	$^{\circ}C$
Storage Temperature	$T_{STG}$	$-55^{\circ}C \sim 150^{\circ}C$	$^{\circ}C$

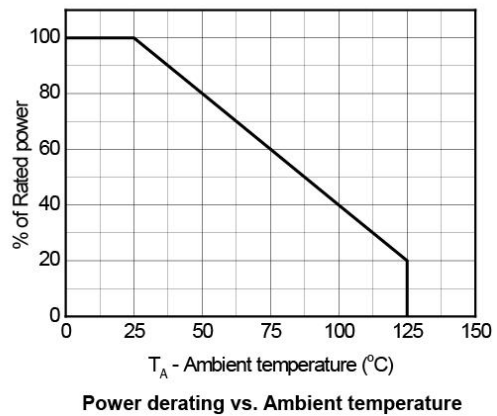
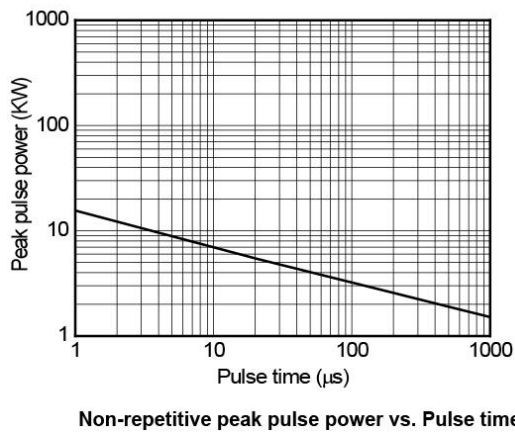
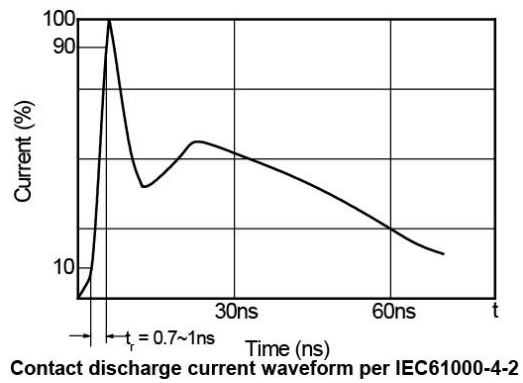
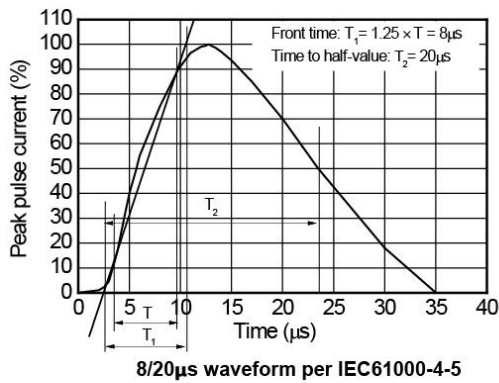
Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
$I_F$	Forward Current
$V_F$	Forward Voltage @ $I_F$

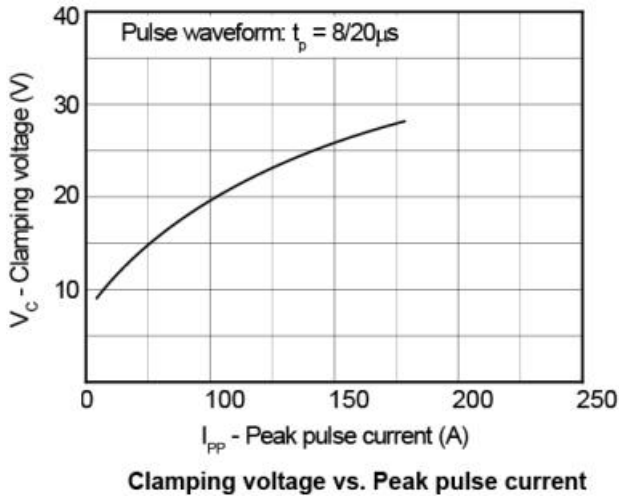


**Ratings and characteristic curves ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

Parameter	Symbol	Condition	Min	Max	Units
Reverse Stand-off Voltage	$V_{RWM}$			12	V
Reverse Breakdown Voltage	$V_{BR}(\text{min})$	$I_Z=1\text{mA}$	13.0		V
Reverse Leakage Current	$I_R(\text{max})$	@ $V_{RWM}$		1.0	$\mu\text{A}$
Clamping Voltage	$V_C$	$I_{PP}=180\text{A}$ $t_p=8/20\mu\text{s}$		30	V
Peak Pulse Current	$I_{PP}$	$t_p=8/20\mu\text{s}$	180		A

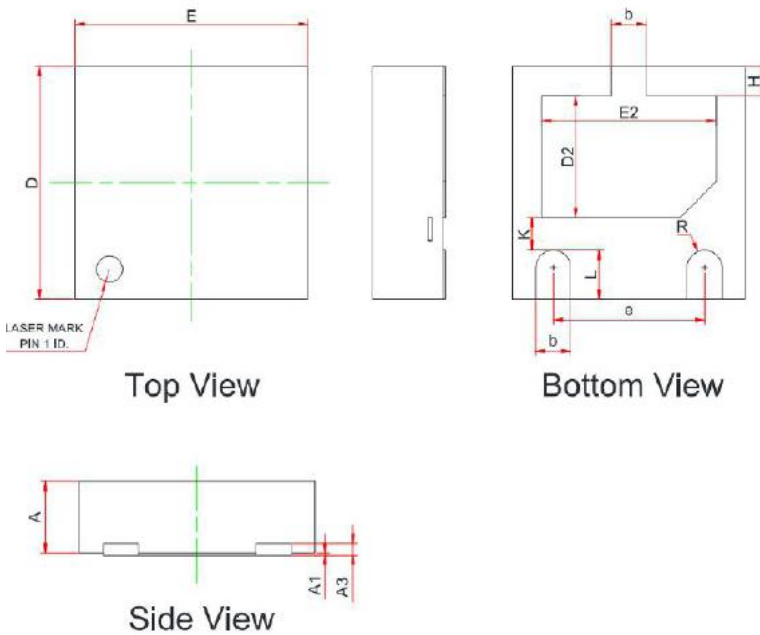
**Typical Characteristics**





## Dimensions

### DFN2020-3L



SYM	DIMENSIONS		
	MILLIMETERS		
	MIN	NOM	MAX
A	0.50	0.55	0.65
A1	0.00	0.02	0.05
A3	0.10REF		
b	0.25	--	0.35
D	1.90	--	2.10
E	1.90	--	2.10
D2	0.95	--	1.15
E2	1.40	--	1.60
e	1.20		1.40
H	0.20	--	0.30
K	0.20		0.40
L	0.35	--	0.45
R	0.13	--	--