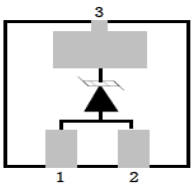
DFN2x2-3L



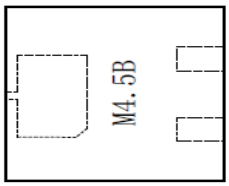
Features

4000Watts peak pulse power(tp=8/20us)
Low clamping voltage
Low leakage current
Glass passivated junction
Unidirectional configurations
IEC 61000-4-2 ±30KV contact ± 30KV air
Halogen free and RoHS compliant

Mechanical Data

CASE: DFN2x2-3L Molded Plastic
Molding compound flammability rating: UL 94V-0
Mounting Position:Any

Making Code & Ordering information



Ordercode	Package	Base qty	Deliverymode
PDF3NL4.5A	DFN2x2-3L	3000	Tape and reel

Maximum Ratings & Thermal Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified.)

Rating	Symbol	Value	Units
Peak Pulse Power (t_p =8/20μs)	P_{PP}	4000	Watts
Peak Pulse Current (t_p =8/20μs) (note1)	I_{pp}	240	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V_{ESD}	30 30	kV
Lead Soldering Temperature	T_L	260(10seconds)	℃
Junction Temperature	T_J	-55 to + 125	℃
Storage Temperature	T_{stg}	-55 to + 125	℃

Electrical Characteristics

(Ratings at 25℃ ambient temperature unless otherwise specified).

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				4.5	V
Reverse Breakdown Voltage	V_{BR}	I_T=1mA	4.7			V
Reverse Leakage Current	I_R	V_{RWM}=4.5V,T=25℃			0.5	uA
Clamping Voltage	V_C	I_{PP}=240A,t_p=8/20μs		12	15	V
Junction Capacitance	C_j	V_R = 0V, f = 1MHz		550		pF

Ratings and Characteristic Curves

（Ratings at 25℃ ambient temperature unless otherwise specified).

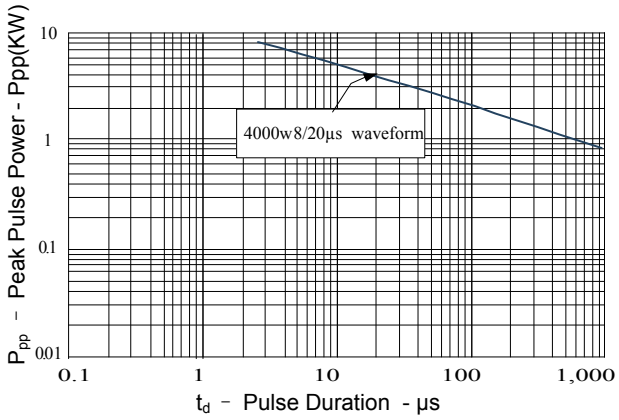


Figure 1: Peak Pulse Power vs. Pulse Time

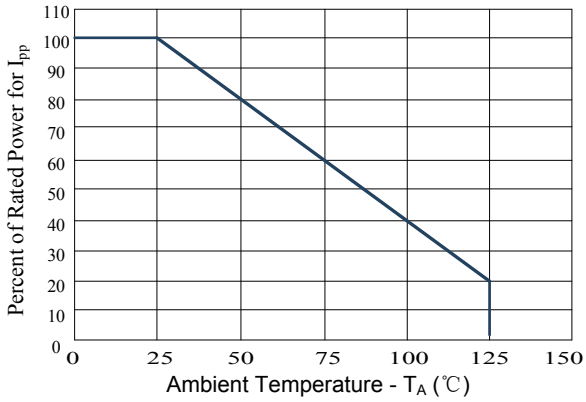


Figure 2: Power Derating Curve

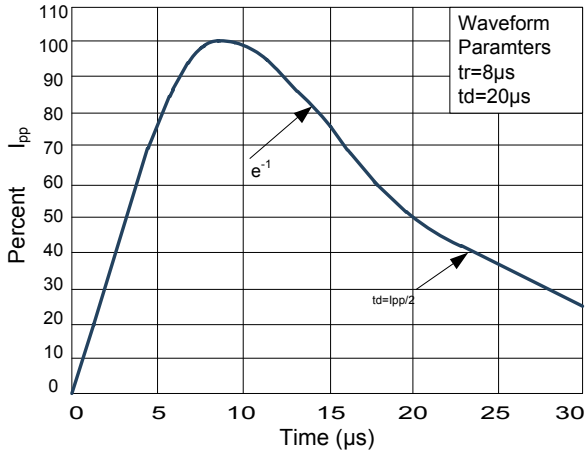


Fig.3 PulseWaveform-8/20μs

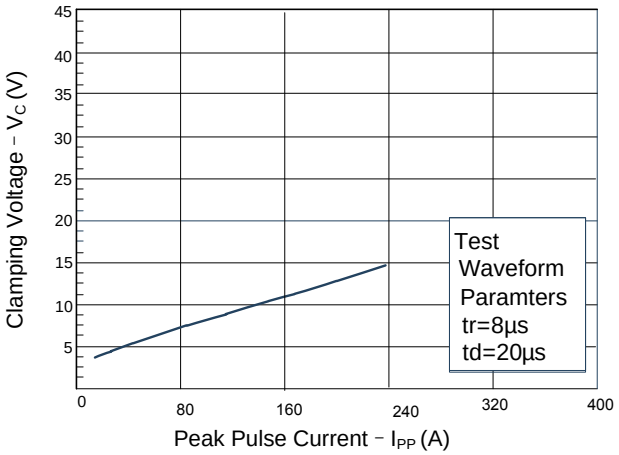
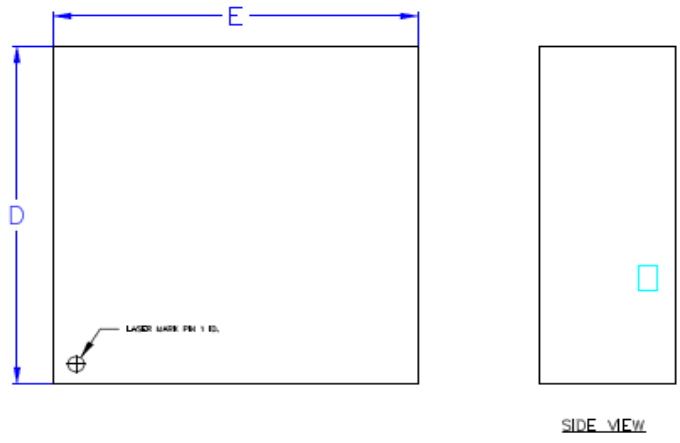
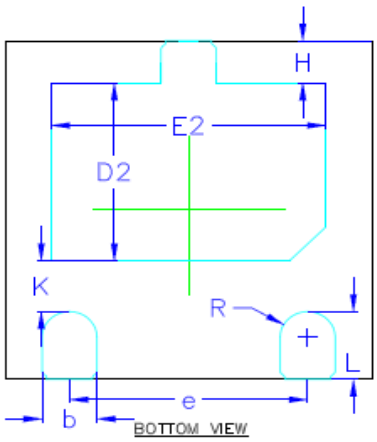
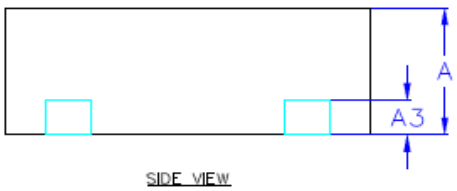


Fig.4 PulseWaveform-ESD(IEC61000-4-2)

Package Outline Dimensions: DFN2x2-3L







COMMON DIMENSION (MM)			
PKG	DFN2020		
REF.	MIN.	NOM.	MAX
A	0.527	0.552	0.577
A3		0.127 REF	
b	0.25	0.30	0.35
D	1.90	2.00	2.10
E	1.90	2.00	2.10
D2	0.95	1.05	1.15
E2	1.40	1.50	1.60
e	1.20	1.30	1.40
H	0.20	0.25	0.30
K	0.20	0.30	0.40
L	0.35	0.40	0.45
R1	0.13	—	—