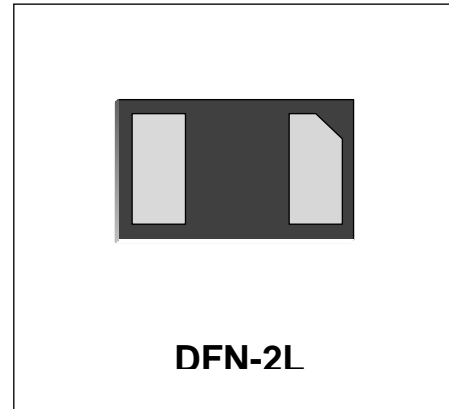


Features

- Small Body Outline Dimensions:
0.039"x 0.024"(1.0 mm x 0.60 mm)
- Protects high speed signal line
- Low Clamping Voltage
- Ultra Low Capacitance:0.35pF
- Working Voltage: 5 V
- Low Leakage Current
- Response Time is Typically < 1 ns



IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 20\text{kV}$ (air), $\pm 20\text{kV}$ (contact)
- IEC 61000-4-5 4.5A (8/20us)

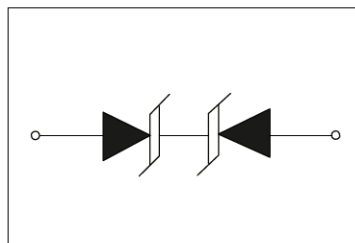
Mechanical Characteristics

- DFN-2L package
- Molding compound flammability rating:
UL 94V-0
- Marking: 5F
- Packaging: Tape and Reel per EIA 481
- RoHS Compliant
- MSD Level:2

Applications

- Laptop Computers
- Cellular Phones
- Digital Cameras
- Personal Digital Assistants (PDAs)

Schematic & PIN Configuration

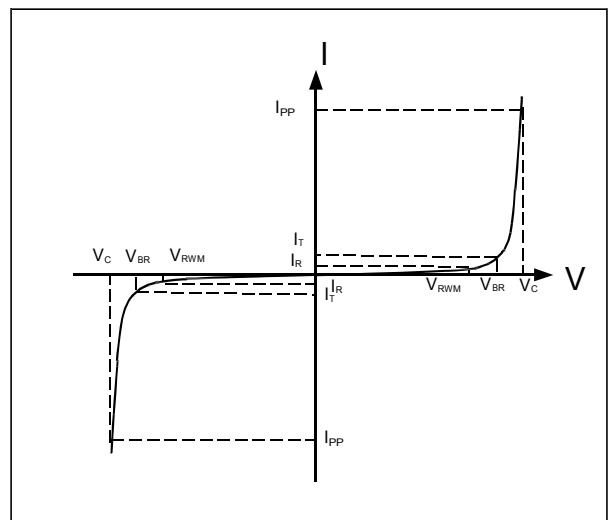


DFN-2L (Top View)

Absolute Maximum Rating			
Rating	Symbol	Value	Units
Electrostatic discharge Voltage (See Note1 ,2)	V _{ESD}	20KV (contact)	Volts
		20KV (air)	
Peak Pulse Power (8/20uS)	P _{PP}	100	W
Rated Peak Pulse Current (8/20uS)	I _{PPM}	4.5	A
Operating Temperature	T _J	-55 to + 125	°C
Storage Temperature	T _{STG}	-55 to +150	°C

Electrical Parameters (T=25°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



Electrical Characteristics

MDFN2C051UZ						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V _{RWM}				5.0	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6.0	8.5	9.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V, T=25°C			0.1	μA
Clamping Voltage	V _C	I _{PP} =1A, t _p =8/20μs			11	V
Junction Capacitance	C _j	V _R = 0V, f= 1MHz		0.35	0.45	pF

Note1: ESD Pulse Waveform according to IEC 61000-4-2. see Table1 and Figure4.

Note2: ESD tests Setup see Figure 5.

Typical Characteristics

Fig.1 Peak Pulse Power Rating Curve

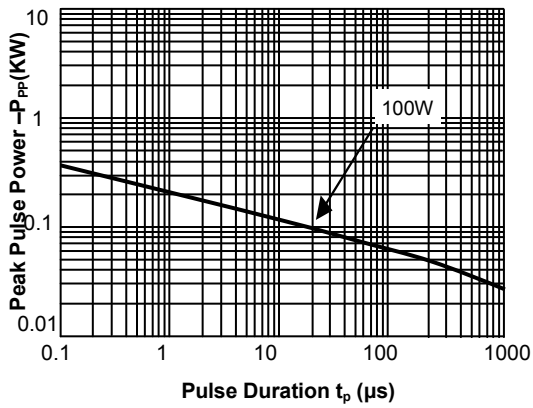


Fig.2 Pulse Derating Curve

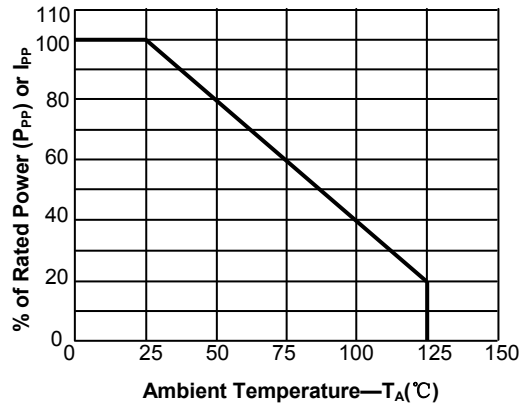


Fig.3 Pulse Waveform-8/20 μs

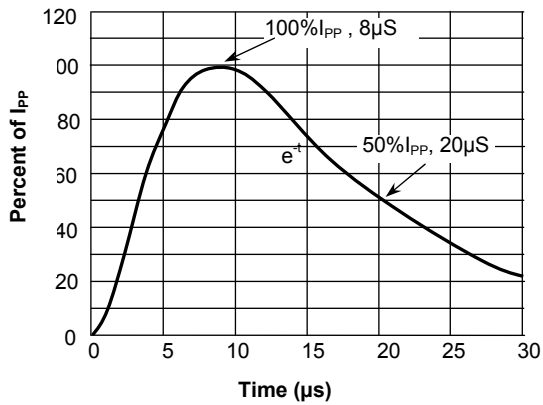
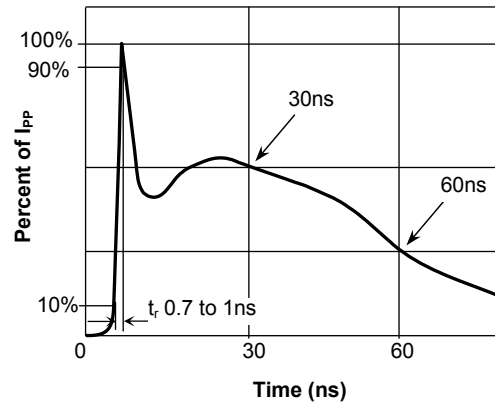
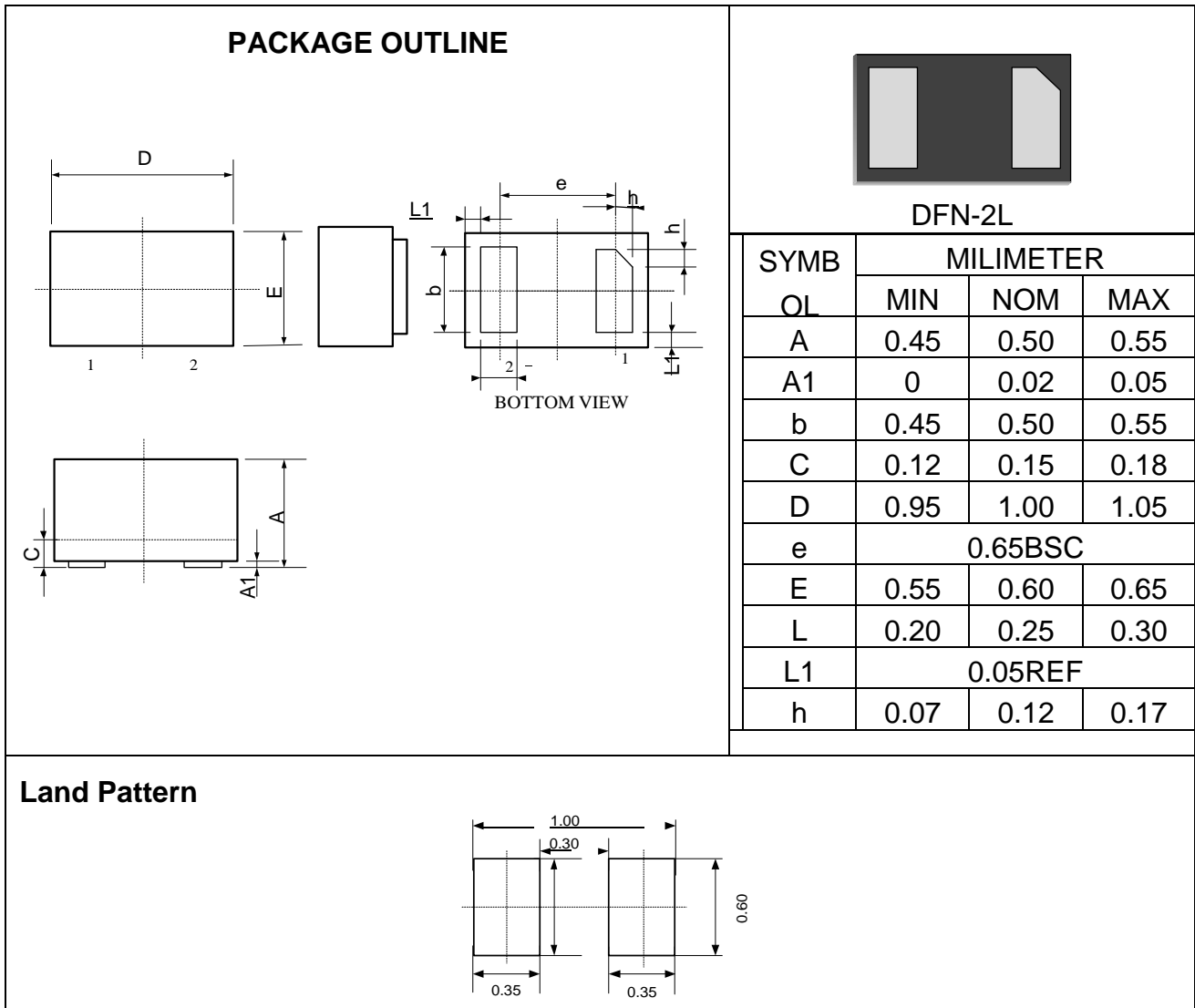


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Outline Drawing –DFN-2L



Order Information

PN#	Package	Carrier	Quantity	HSF Status
MDFN2C051UZ	DFN-2L	Tape & Reel	10,000pcs/Reel	RoHS compliant