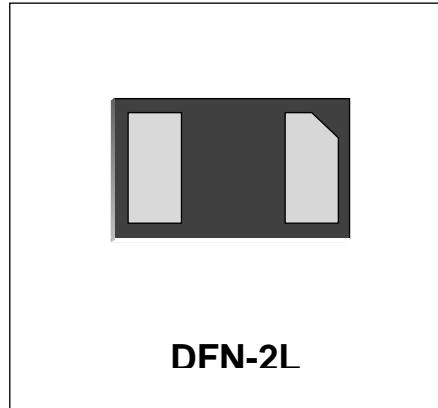




Features

- 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

**DFN-2L**

IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) ±20kV (air), ±20kV (contact)
- IEC 61000-4-5 4.5A (8/20us)

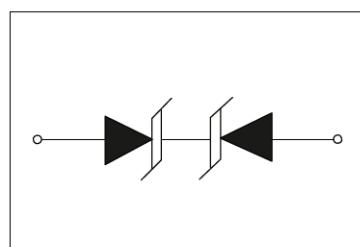
Mechanical Characteristics

- 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)

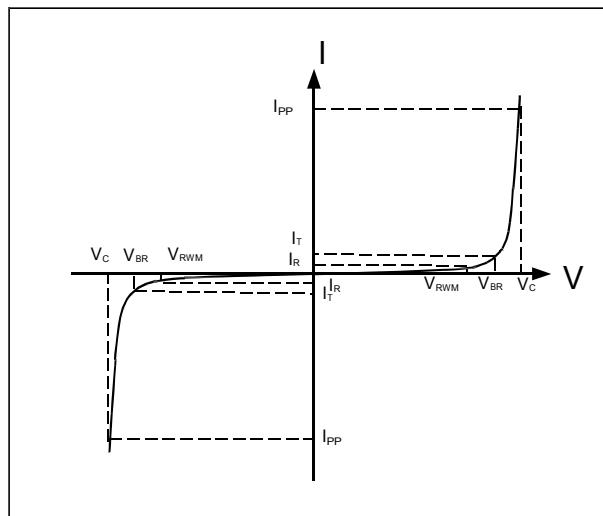
Schematic & PIN Configuration

**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 ($T=25^{\circ}\text{C}$)

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



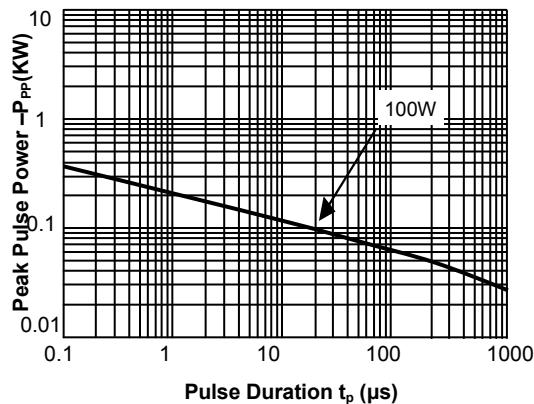
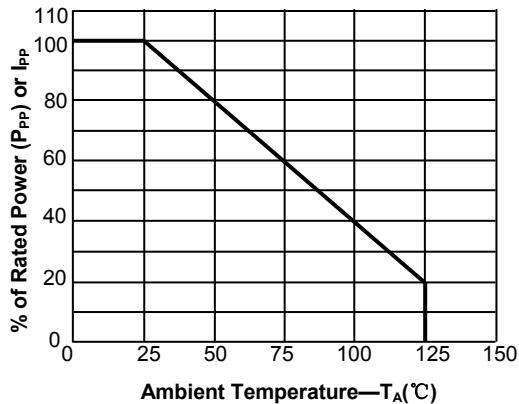
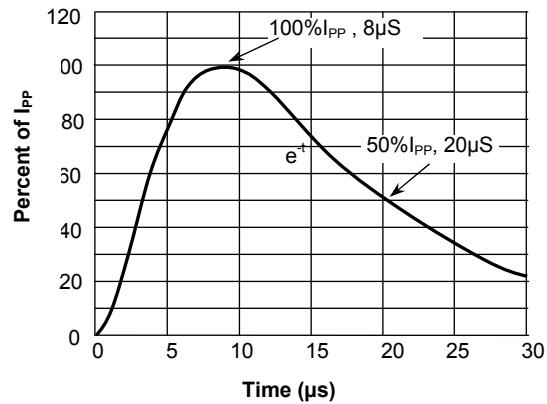
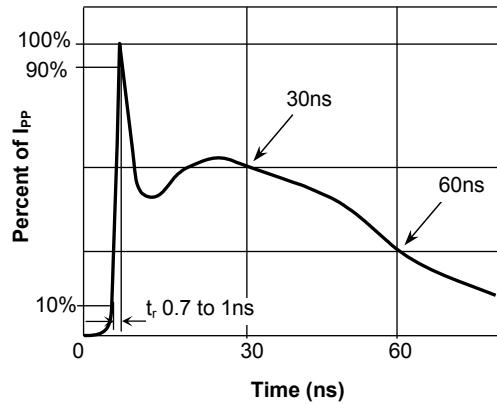
Electrical Characteristics

MDFN2C051UZ						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1\text{mA}$	6.0	8.5	9.5	V
Reverse Leakage Current	I_R	$V_{RWM}=5\text{V}, T=25^{\circ}\text{C}$			0.1	μA
Clamping Voltage	V_C	$I_{PP}=1\text{A}, t_p=8/20\mu\text{s}$			11	V
Junction Capacitance	C_j	$V_R = 0\text{V}, f = 1\text{MHz}$		0.35	0.45	pF

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

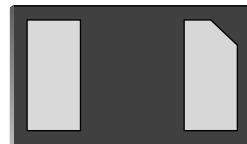
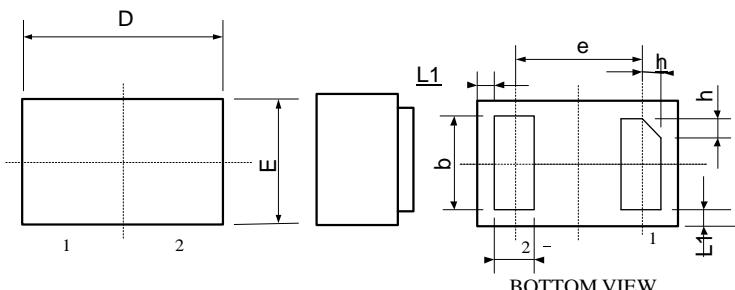
Note2: ESD tests Setup see Figure 5.

Typical Characteristics

Fig.1 Peak Pulse Power Rating Curve

Fig.2 Pulse Derating Curve

Fig.3 Pulse Waveform-8/20μs

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


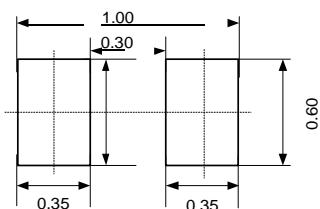
Outline Drawing –DFN-2L

PACKAGE OUTLINE


DFN-2L

SYMB OL	MILIMETER		
	MIN	NOM	MAX
A	0.45	0.50	0.55
A1	0	0.02	0.05
b	0.45	0.50	0.55
C	0.12	0.15	0.18
D	0.95	1.00	1.05
e	0.65BSC		
E	0.55	0.60	0.65
L	0.20	0.25	0.30
L1	0.05REF		
h	0.07	0.12	0.17

Land Pattern



Order Information

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

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