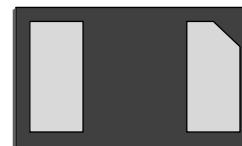


## Features

- Protects one I/O or Power Line
- Completely Compatible with SOD923
- Low Clamping Voltage
- Working Voltage: 8V
- Low Leakage Current
- Response Time is Typically < 1 ns

**DFN-2L**

## IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD)  $\pm 15\text{kV}$  (air),  $\pm 8\text{kV}$  (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)

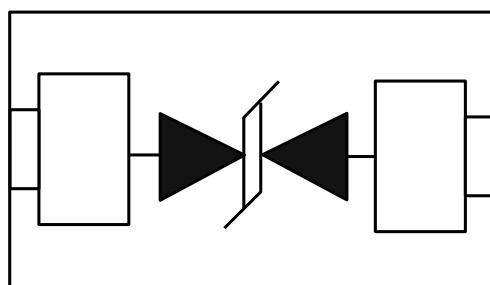
## Mechanical Characteristics

- JEDEC DFN-2L package (0402 size)
- Molding compound flammability rating:  
UL 94 V-0
- Marking : Marking Code
- RoHS Compliant

## Applications

- Cellular Handsets & Accessories
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation
- Digital Cameras
- MP3 Players

## Schematic & PIN Configuration



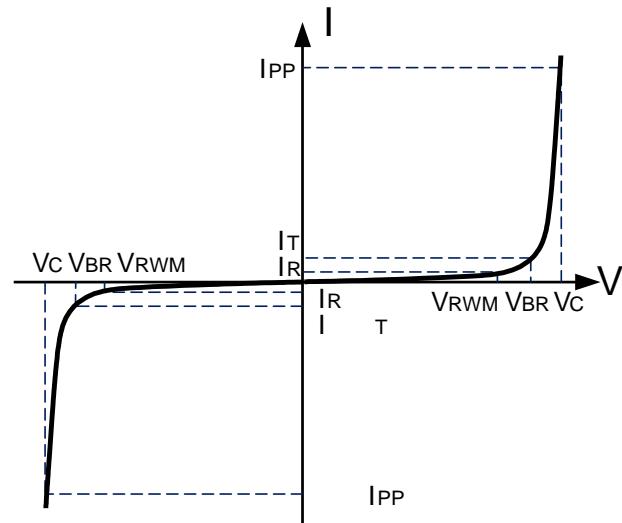
Bi-directional

### Absolute Maximum Rating

Rating	Symbol	Value	Units
Peak Pulse Power ( $t_p = 8/20\mu s$ )	$P_{PP}$	350	Watts
Peak Forward Voltage ( $I_F = 1A$ , $t_p = 8/20\mu s$ )	$V_{FP}$	1.5	V
Operating Temperature	$T_J$	-55 to + 125	°C
Storage Temperature	$T_{STG}$	-55 to +150	°C

### Electrical Parameters (T=25°C)

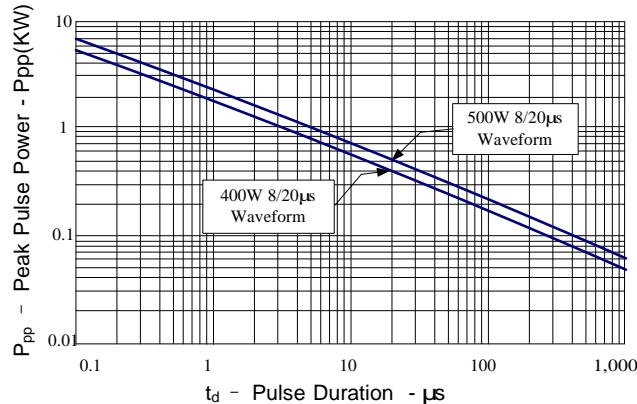
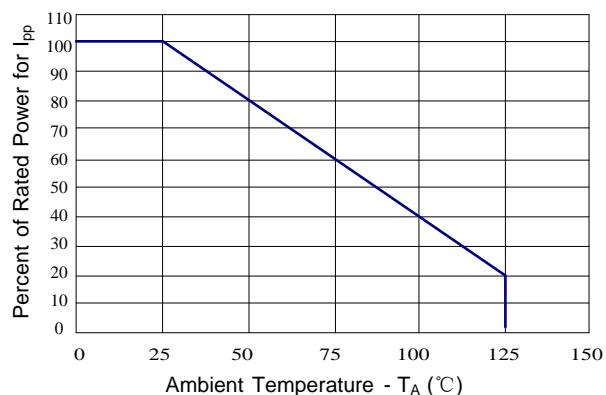
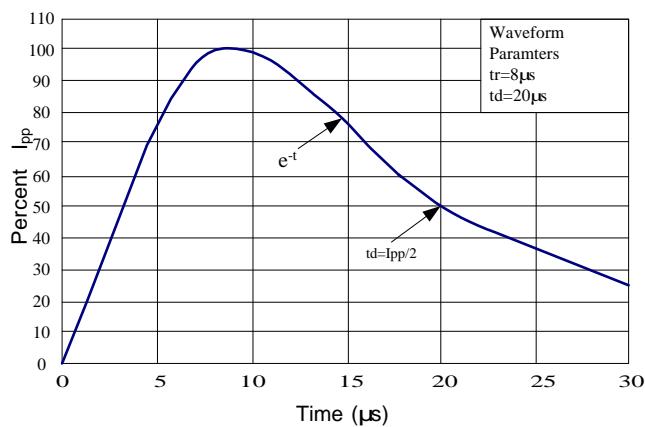
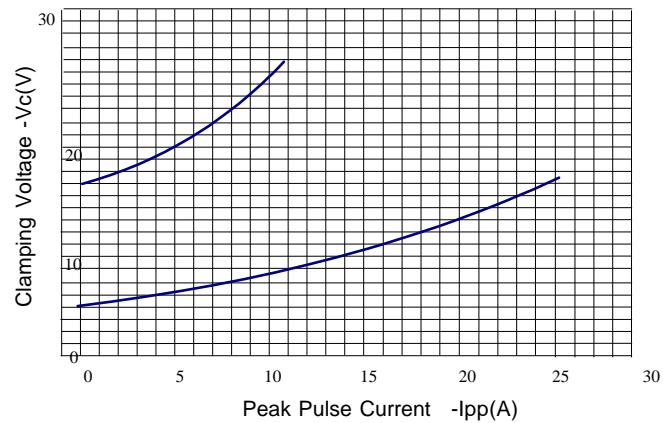
Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
$I_F$	Forward Current
$V_F$	Forward Voltage @ $I_F$



### Electrical Characteristics

MDFN2C071V35						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	$V_{RWM}$				7.0	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	8.4			V
Reverse Leakage Current	$I_R$	$V_{RWM}=5V$ , $T=25^\circ C$			1	$\mu A$
Peak Pulse Current	$I_{PP}$	$t_p=8/20\mu s$			15	A
Clamping Voltage	$V_C$	$I_{PP}=4A$ , $t_p=8/20\mu s$		12		V
Junction Capacitance	$C_j$	$V_R=0V$ , $f=1MHz$		45		pF

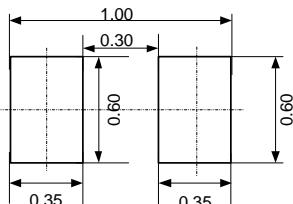
## Typical Characteristics

**Figure 1: Peak Pulse Power Vs Pulse Time**

**Figure 2: Power Derating Curve**

**Figure 3 Pulse Waveform**

**Figure 4 Clamping Voltage vs. Peak Pulse Current**


**Outline Drawing – DFN-2L**

PACKAGE OUTLINE		DFN-2L		
SYMB	MILIMETER			
	OL	MIN	NOM	
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	

BOTTOM VIEW

**Land Pattern**

**Package Information**

Qty: 10k/Reel

**Marking Codes**

Part Number	Marking Code
MDFN2C071V35	8B