



APPLICATIONS

- ◆ Cell Phone Handsets and Accessories
- ◆ Microprocessor based equipment
- ◆ Personal Digital Assistants (PDA's)
- ◆ Notebooks, Desktops, and Servers
- ◆ Portable Instrumentation
- ◆ Peripherals
- ◆ Pagers

IEC COMPATIBILITY

- ◆ IEC61000-4-2 (ESD) $\pm 30\text{kV}$ (Air), $\pm 30\text{kV}$ (Contact)
- ◆ IEC61000-4-4 (EFT) 40A (5/50ns)
- ◆ IEC61000-4-5 (LIGHTING) 5A (8/20 μs)

FEATURES

- ◆ 185 Watts Peak Pulse Power per Line ($t_p=8/20\mu\text{s}$)
- ◆ Protects One Bidirectional I/O Line
- ◆ Low clamping voltage
- ◆ Working voltages : 15V
- ◆ Low leakage current

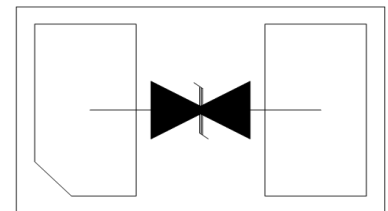
MECHANICAL CHARACTERISTICS

- ◆ DFN1006 (1.0x0.6x0.5mm) Package
- ◆ Molding Compound Flammability Rating : UL 94V-O
- ◆ Weight 0.5 Milligrams (Approximate)
- ◆ Reel Size : 7 inch
- ◆ Lead Finish : Lead Free

DFN1006-2L



PIN CONFIGURATION





DEVICE CHARACTERISTICS

MAXIMUM RATINGS (@ 25°C Unless Otherwise Specified)

PARAMETER	SYMBOL	VALUE	UNITS
Peak Pulse Power (tp=8/20µs waveform)	Ppp	185	W
Lead Soldering Temperature	TL	260 (10 sec.)	°C
Operating Temperature Range	TJ	-40 ~ 125	°C
Storage Temperature Range	Tstg	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS PER LINE (@ 25°C Unless Otherwise Specified)

PART NUMBER	DEVICE MARKING	VRWM	VB	IT	Vc		IR	CT
		(V) (max.)	(V) (min.)	(mA)	(max.)	(@A)	(µA) (max.)	(pF) (typ.)
ESD1006N15VB1N185H	DE	15	16.7	1	37	5	1	25

TYPICAL CHARACTERISTICS

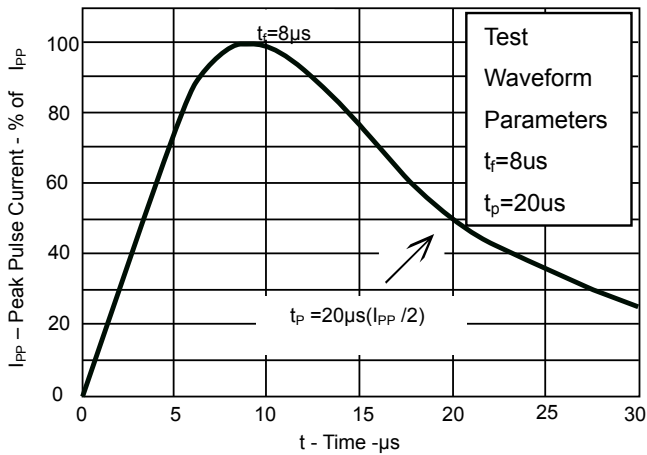


Fig 1. Pulse Waveform

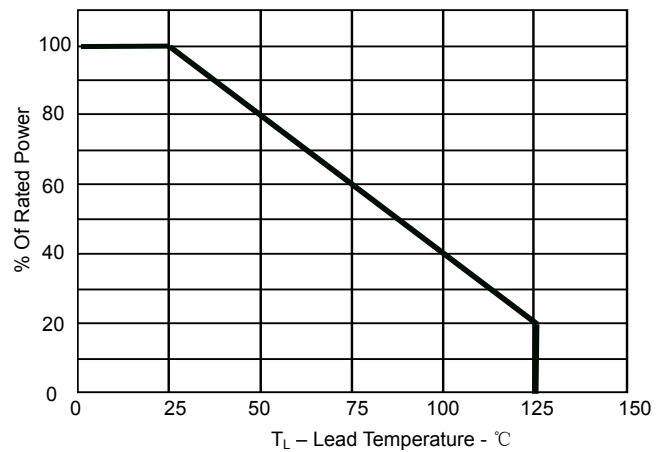
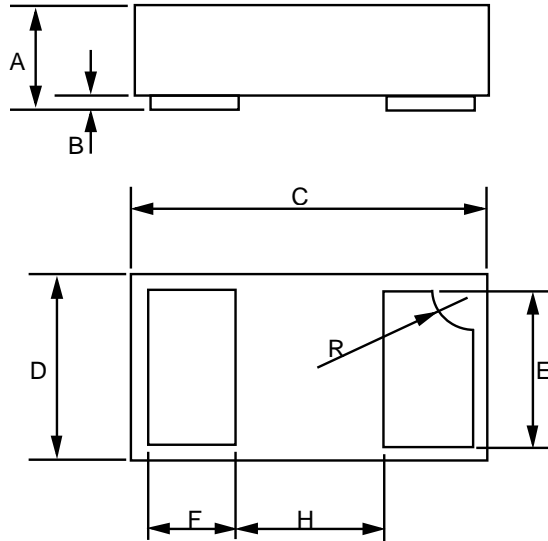


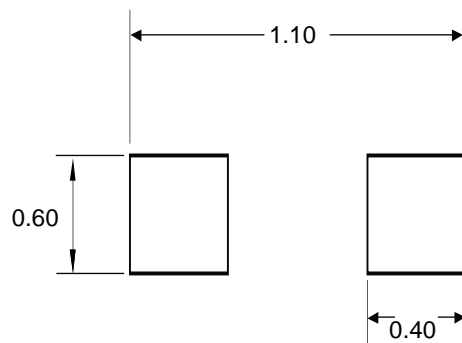
Fig 2. Power Derating Curve



Product dimension (DFN1006-2L)



Dim	Inches		Millimeters	
	MIN	MAX	MIN	MAX
A	0.013	0.020	0.34	0.50
B	0.000	0.002	0.00	0.05
C	0.037	0.042	0.95	1.075
D	0.021	0.026	0.55	0.675
E	0.017	0.021	0.45	0.55
F	0.007	0.011	0.20	0.30
H	0.015Typ.		0.40Typ.	
R	0.001	0.005	0.05	0.15



Unit:mm