

ME3V3U1BABL

1. Features

- 60Watts peak pulse power ($t_p = 8/20\mu s$)
- Bi-directional configurations
- Solid-state silicon-avalanche technology
- Capacitance: 0.35pF typical
- Low clamping voltage
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test
 - Air discharge: $\pm 20KV$
 - Contact discharge: $\pm 15KV$
 - IEC61000-4-4 (EFT) 40A (5/50ns)
 - IEC61000-4-5(Lightning) 6A (8/20us)

2. Application

- USB interfaces
- Personal Digital Assistants
- Notebooks and Handhelds
- Digital Cameras

3. Mechanical Data

- Package: DFN1006-2L
- UL Flammability Classification Rating 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

4. Absolute Maximum Rating

Parameter	Symbol	Value	Unit
ESD per IEC 61000-4-2 (Contact) ESD per IEC 61000-4-2 (Air)	V_{ESD}	± 15 ± 20	KV
Peak Pulse Power(8/20 μs)	P_{PP}	60	W
Reverse Working Voltage	V_{RWM}	3.3	V
Maximum Reverse Peak Pulse Current	I_{PP}	6	A
Operating Temperature	T_{OPT}	-55~+125	°C
Storage Temperature	T_{stg}	-55~+150	°C

5. Pinning information

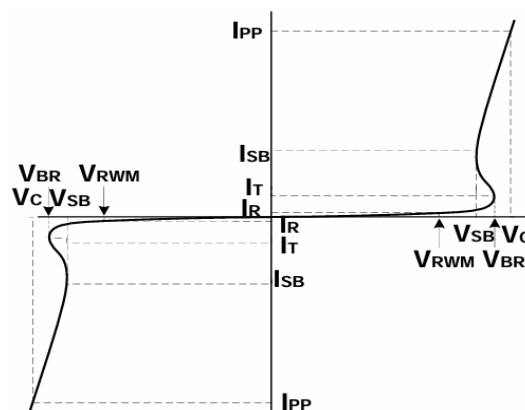
Pin	Symbol	Simplified outline	Equivalent Circuit	Marking	Package
2	Bi				DFN1006-2L

6. Electrical Characteristics ($T_{amb}=25^{\circ}C$)

Parameter	Symbols	Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	4.0			V
Reverse Leakage Current	I_R	$V_{RWM}=3.3V$			0.1	μA
Clamping Voltage	V_C	$I_{pp}=6A, t_p=8/20\mu s$			10	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		0.35	0.5	pF

7. Electrical Parameters

Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage@ I_{PP}
V_{RWM}	Reverse Working Voltage
I_R	Maximum Reverse Leakage Current
I_T	Test Current
V_{BR}	Breakdown Voltage@ I_T
V_{SB}	Snap-Back Voltage@ I_{SB}
I_{SB}	Snap-Back Current



8. Typical Characteristics

Fig.1 8/20us Waveform Per IEC6100-4-5

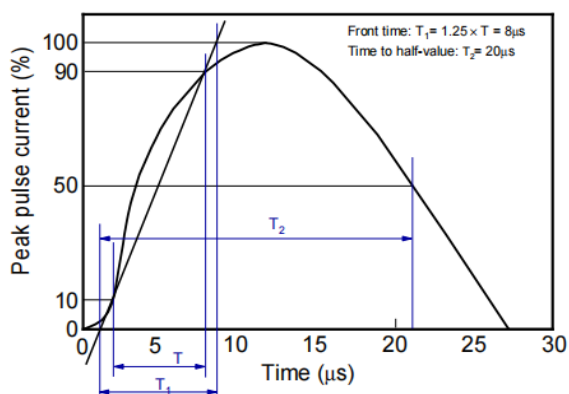


Fig.2 Contact Discharge Current Waveform per IEC61000-4-2

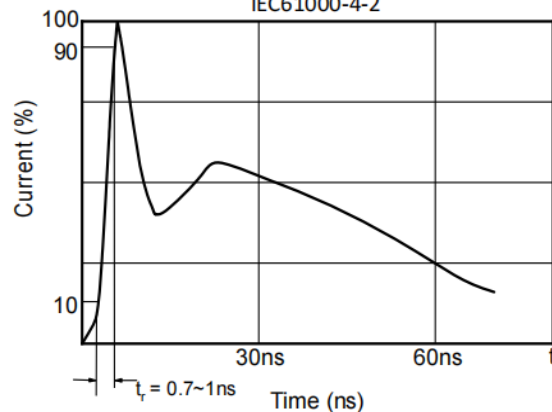
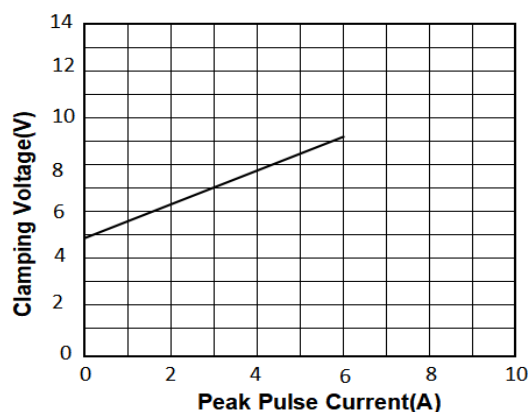
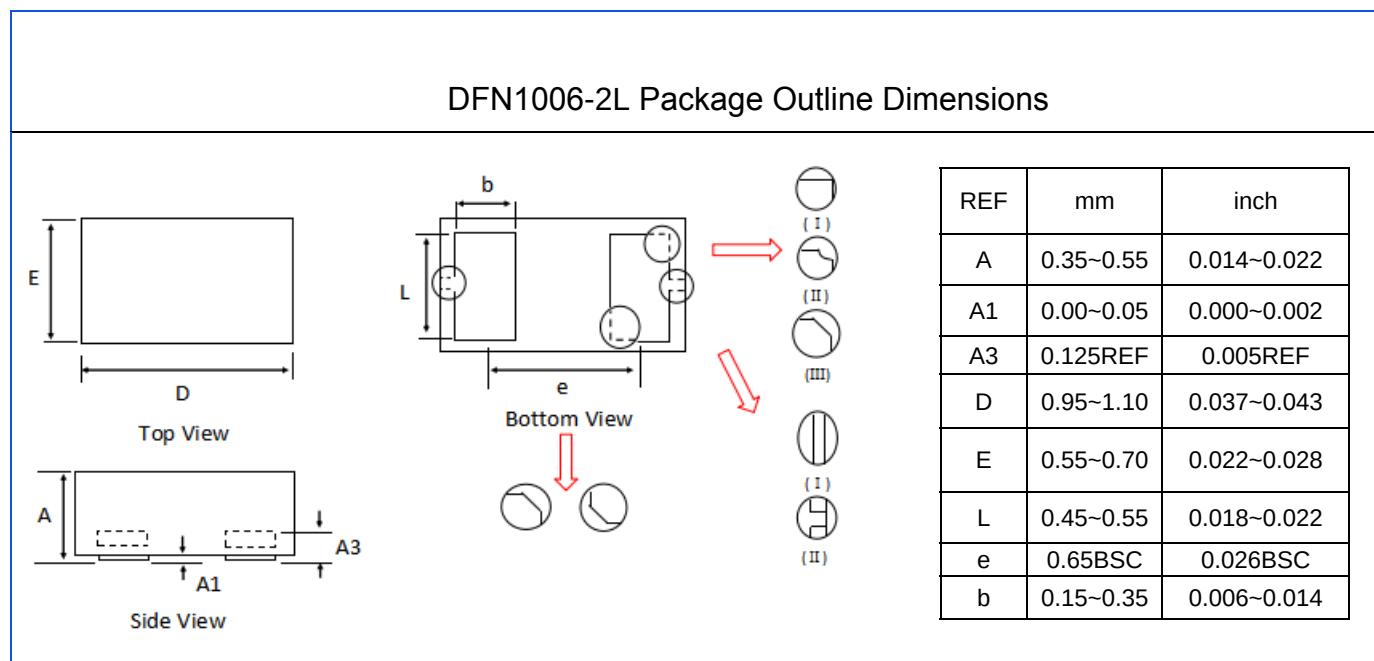


Fig.3 Clamping Voltage Vs. Peak Pulse Current



9.Outline Drawing



10. Reel packing

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (pcs)	QTY/Box (pcs)	Q'TY/Carton (pcs)
DFN1006-2L	7'	178	10,000	150,000	600,000

11.Important Notice and Disclaimer

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