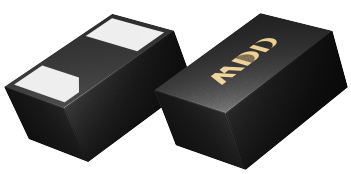


ME5V0Z1BAA

1. Features

- 96Watts peak pulse power (tp = 8/20μs)
- Bi-directional configurations
- Solid-state silicon-avalanche technology
- Capacitance: 15pF typical
- Low clamping voltage
- Low leakage current
- Complies with following standards:
  - IEC 61000-4-2 (ESD) immunity test
    Air discharge: ±30KV
    Contact discharge: ±30KV
  - IEC61000-4-4 (EFT) 40A (5/50ns)
  - IEC61000-4-5(Lightning) 8A (8/20us)

2. Application

- Cellular Handsets and Accessories
- Personal Digital Assistants
- Notebooks and Handhelds
- Portable Instrumentation
- Digital Cameras
- Peripherals

3. Mechanical Data

- Package: DFN0603-2L
- 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}	±30 ±30	KV
Peak Pulse Power(8/20μs)	P_{PP}	96	W
Reverse Working Voltage	V_{RWM}	5.0	V
Peak Pulse Current	I_{PP}	8.0	A
Operating Temperature	T_{OPT}	-55~+125	°C
Storage Temperature	T_{stg}	-55~+150	°C

5. Pinning information

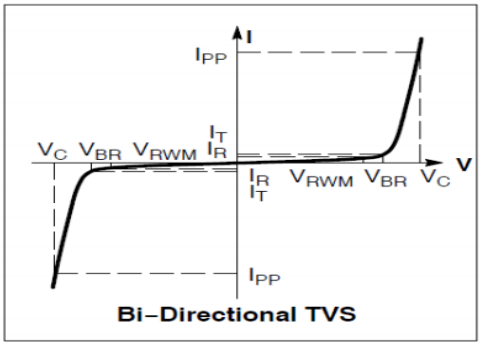
Pin	Polarity	Description	Simplified outline	Equivalent Circuit	Marking	Package
2	Bi	Nonpolar	(1) (2)	1 2	阴极线+5A	DFN0603-2L

6.Electrical Characteristics(Tamb=25°C)

Parameter	Symbols	Condition	Min	Typ	Max	Unit
Reverse Working Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	I_T=1mA	5.3			V
Reverse Leakage Current	I_R	V_{RWM}=5V			0.1	uA
Clamping Voltage	V_C	I_{PP}=1A , t_p=8/20us			8.0	V
		I_{pp}=8A , t_p=8/20us			12	V
Junction Capacitance	C_J	V_R =0V ,f=1MHz		15		pF

7.V-I Curve

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



8.Typical Characteristics

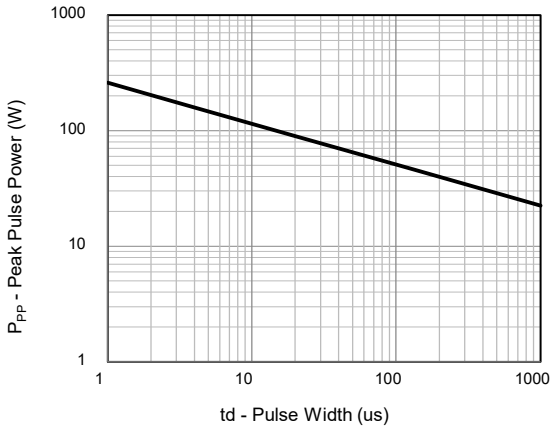


Figure 1. Peak Pulse Power Rating

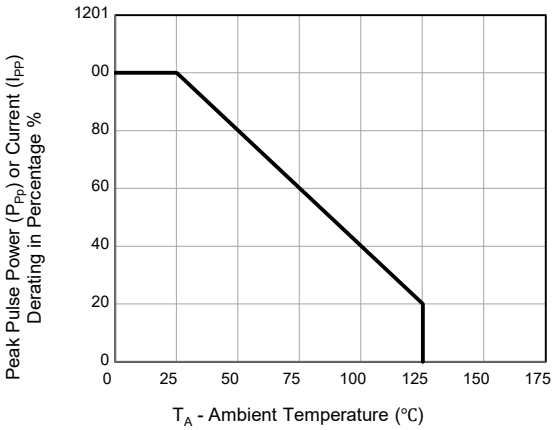


Figure2. Pulse Derating Curve

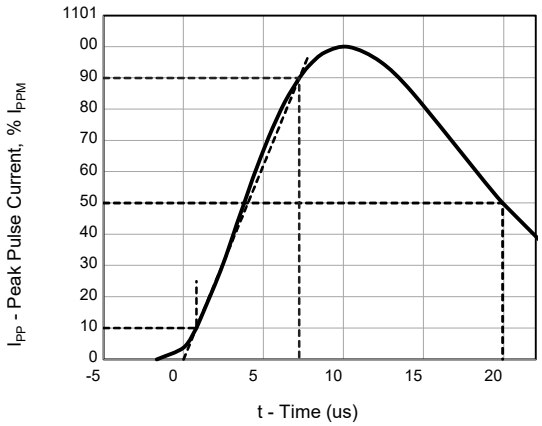


Figure 3. 8/20us Pulse Waveform

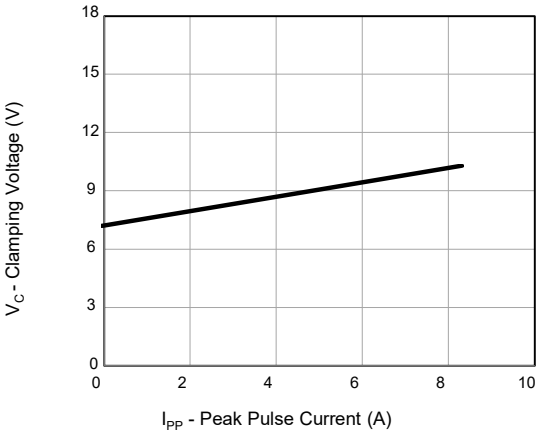


Figure 4. Typical Clamping Voltage

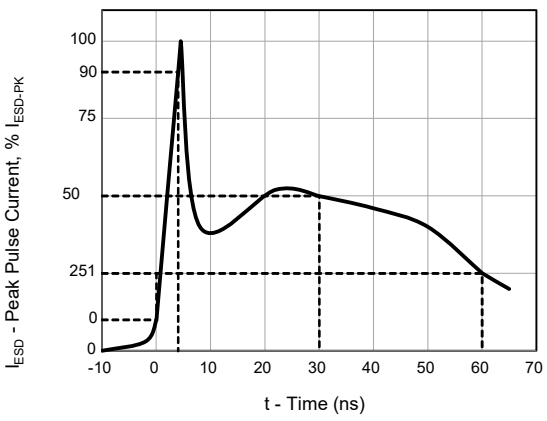


Figure 5. ESD Pulse Waveform (IEC61000-4-2)

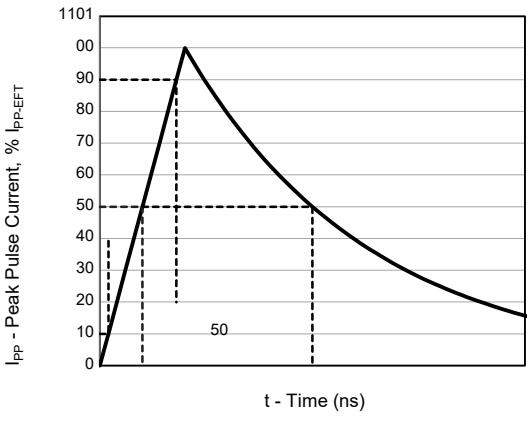
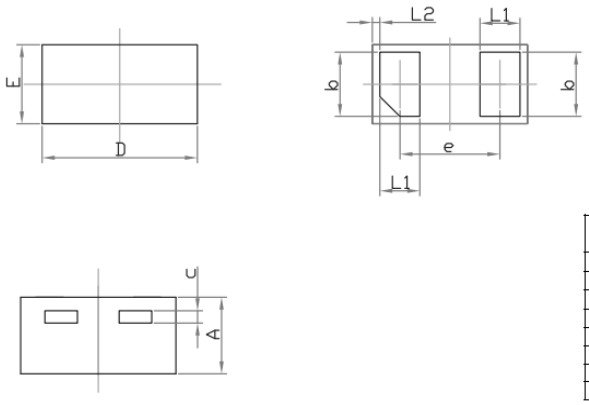


Figure 6. 5/50ns EFT Waveform (IEC61000-4-4)

9.Outline Drawing

DFN0603-2L Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.275	0.340	0.011	0.013
D	0.570	0.670	0.022	0.026
E	0.270	0.370	0.011	0.015
b	0.225	0.295	0.009	0.012
c	0.050 REF.		0.002 REF.	
e	0.365	0.435	0.014	0.017
L1	0.125	0.195	0.005	0.008
L2	0.030 REF.		0.001 REF.	

10. Reel packing

Package	Reel Size	Reel DIA. (mm)	Q'TY/Reel (pcs)	QTY/Box (pcs)	Q'TY/Carton (pcs)
DFN0603-2L	7'	178	15,000	150,000	600,000

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