



ME3V3Z1BAA

1. Features

- 96Watts peak pulse power ($t_p = 8/20\mu s$)
- 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: $\pm 30KV$
Contact discharge: $\pm 30KV$
 - 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
- 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(8/20 μs)	P_{PP}	96	W
Reverse Working Voltage	V_{RWM}	3.3	V
Peak Pulse Current	I_{PP}	8	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				DFN0603-2L

6. Electrical Characteristics (T_{amb}=25°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} =1A, t _p =8/20μs			6	V
		I _{PP} =8A, t _p =8/20μs			12	V
Junction Capacitance	C _J	V _R =0V, f=1MHz		15	20	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

8. Typical Characteristics

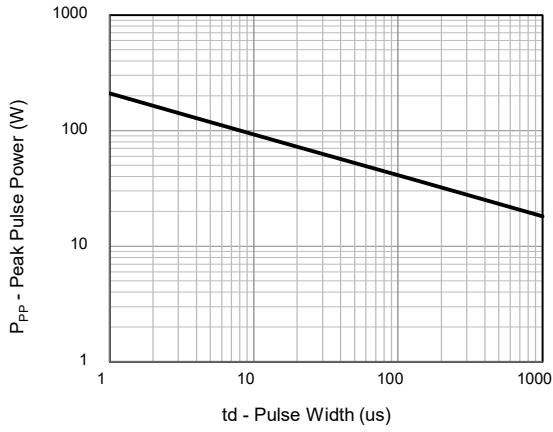


Figure 1. Peak Pulse Power Rating

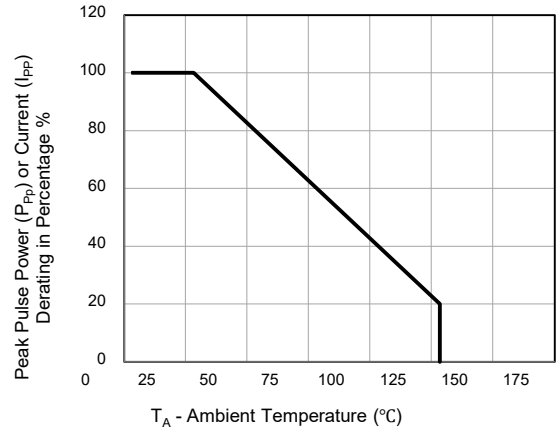


Figure 2. Pulse Derating Curve

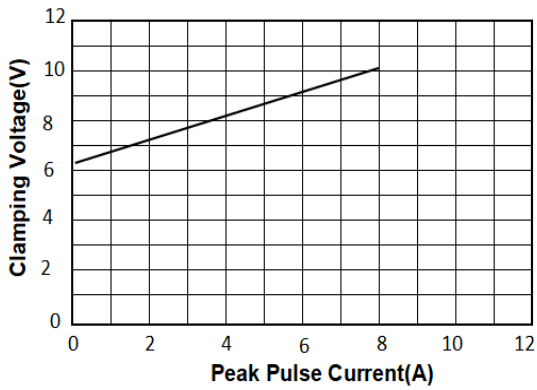
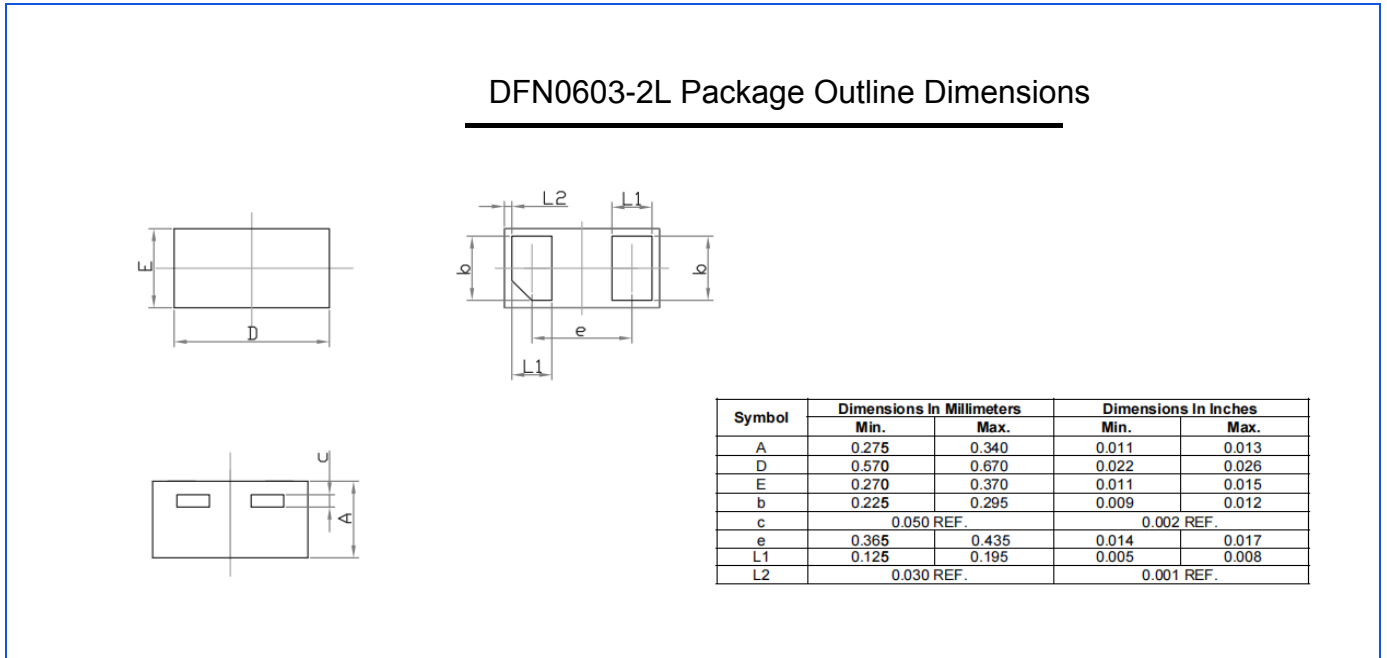


Figure 3. Typical Clamping Voltage

9. Outline Drawing



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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