

1.Features

- 70W peak pulse power ($t_p=8/20\mu s$)
- Tiny DFN0603-2 package
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- IEC 61000-4-2 $\pm 30kV$ contact $\pm 30kV$ air
- IEC 61000-4-4 (EFT) 40A(5/50ns)
- IEC 61000-4-5 (Lightning) 9A(8/20 μs)

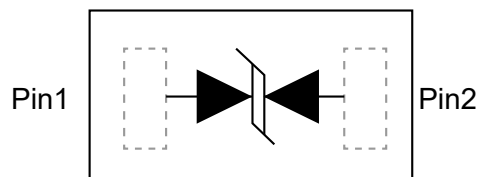
2.Applications

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

3.Mechanical Data

- DFN0603-2 package
- Molding compound flammability rating:
UL 94V-0
- Packaging: Tape and Reel
- RoHS/WEEE Compliant

4.Pinning information



DFN0603-2



5. Absolute Maximum Ratings

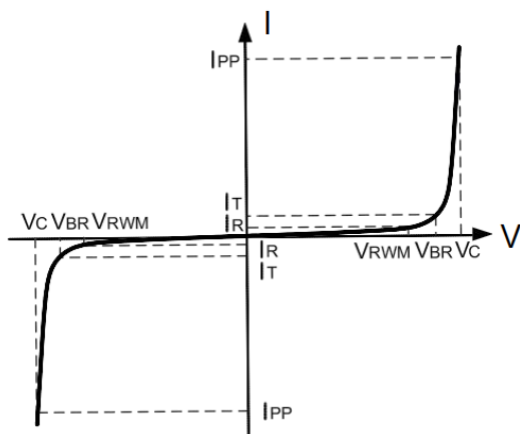
Parameter	Symbol	Value	Units
Peak Pulse Power ($t_p=8/20\mu s$)	P_{PP}	70	W
Peak Pulse Current ($t_p=8/20\mu s$)(note1)	I_{PP}	9	A
ESD per IEC 61000-4-2(Air)	V_{ESD}	30	kV
ESD per IEC 61000-4-2(Contact)		30	kV
Lead Soldering Temperature	T_L	260/10s	°C
Junction Temperature	T_J	-55 to 125	°C
Storage Temperature	T_{STG}	-55 to 125	°C



6. Electrical Characteristics

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Reverse Stand-Off Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_T=1mA$	3.4	4		V
Reverse Leakage Current	I_R	$V_{RWM}=3.3V, T=25^{\circ}C$			0.2	μA
Peak Pulse Current	I_{PP}	$t_p=8/20\mu s$			9	A
Clamping Voltage ¹⁾	V_{CL}	$I_{PP}=16A, t_p=100ns$		8		V
Clamping Voltage ²⁾	V_C	$I_{PP}=1A, t_p=8/20\mu s$		5		V
		$I_{PP}=9A, t_p=8/20\mu s$		8	13	V
Junction Capacitance	C_J	$V_R=0V, f=1MHz$		12	17	pF

7. Electrical Parameters ($T_A=25^{\circ}C$ unless otherwise noted)

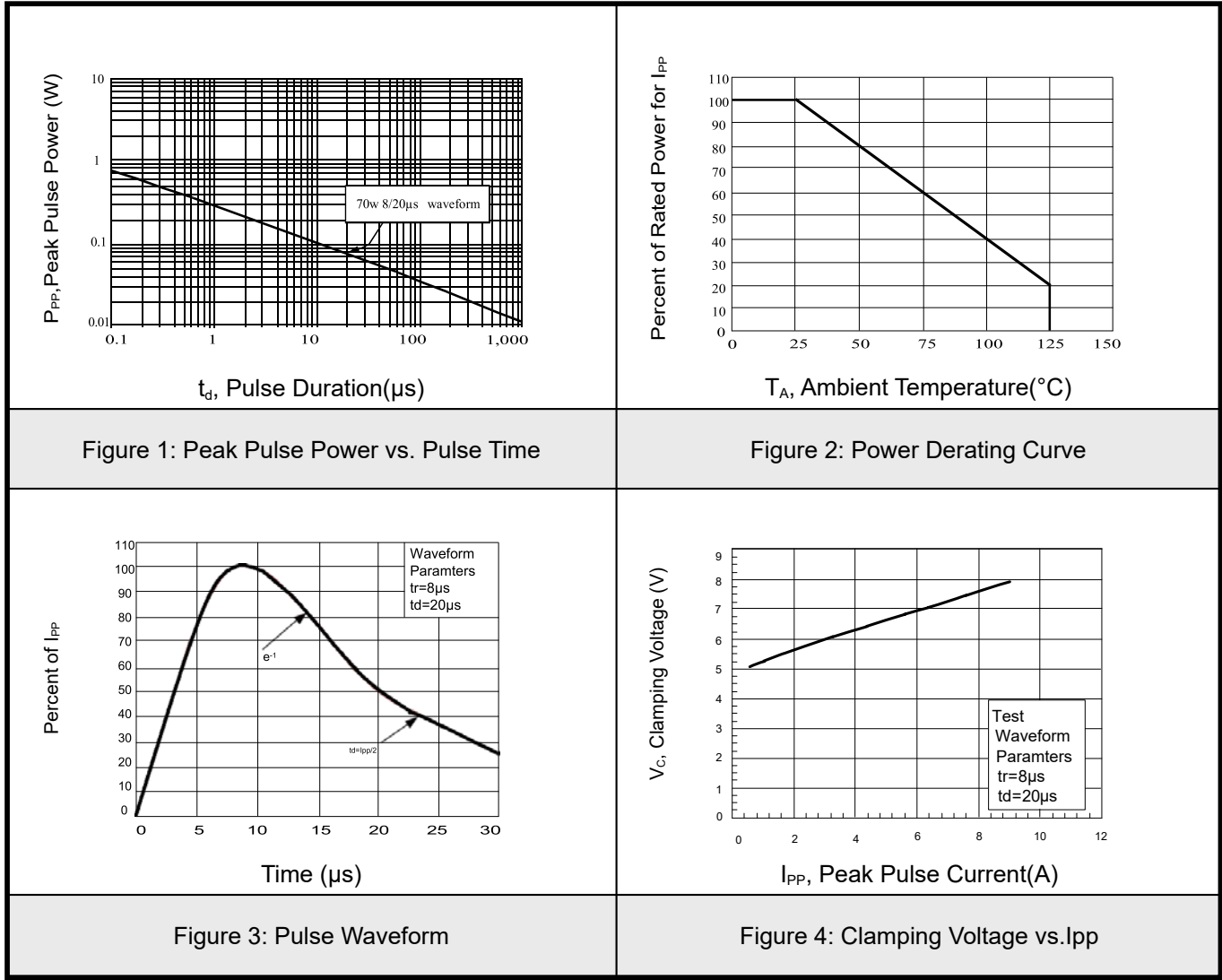


Symbol	Parameter
I_{PP}	Maximum Reverse Peak Pulse Current
V_C	Clamping Voltage @ I_{PP}
V_{RWM}	Working Peak Reverse Voltage
I_R	Maximum Reverse Leakage Current @ V_{RWM}
V_{BR}	Breakdown Voltage @ I_T
I_T	Test Current

Notes: 8/20 μs pulse waveform.

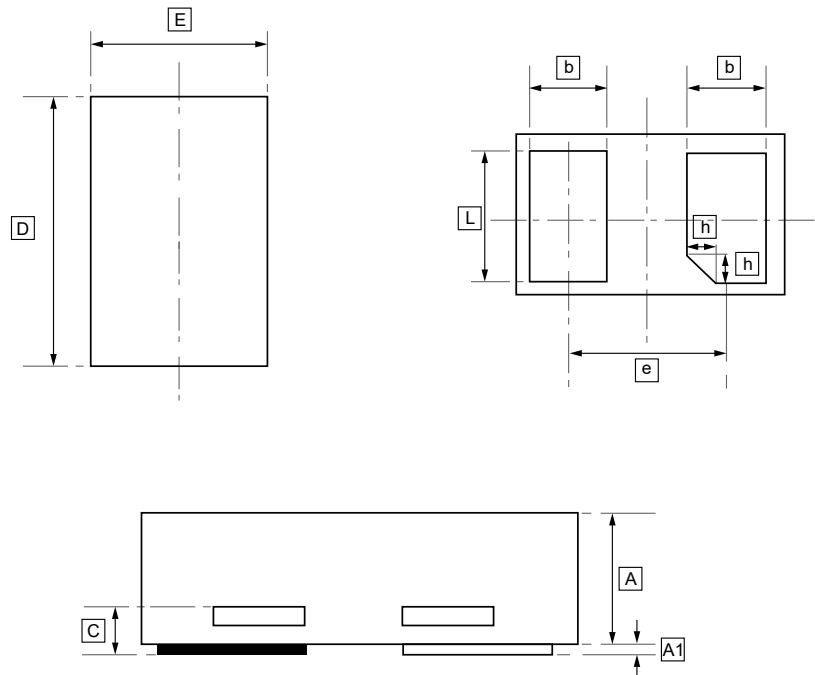


8. Typical characteristic





9.SOT-23 Package Outline Dimensions

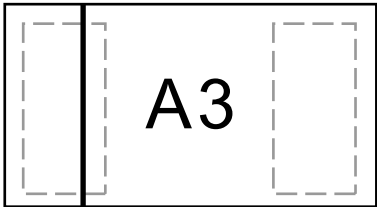


DIMENSIONS (mm are the original dimensions)

Symbol	A	A1	C	D	E	e	b	L	h
Min	0.28	0.00	0.05	0.55	0.25	0.34	0.14	0.20	0
Max	0.32	0.05	0.15	0.65	0.35	0.37	0.24	0.30	0.10



10.Ordering information



Order Code	Package	Base QTY	Delivery Mode
UMW PESD3V3V1BCSF	DFN0603-2	10000	Tape and reel



11.Disclaimer

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