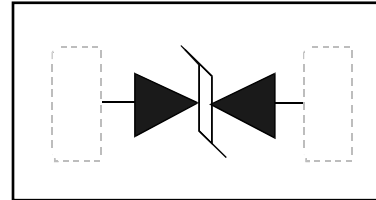


## Features

- 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 $\mu s$ )



## Applications

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

## Mechanical Data

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

## Absolute Maximum Rating

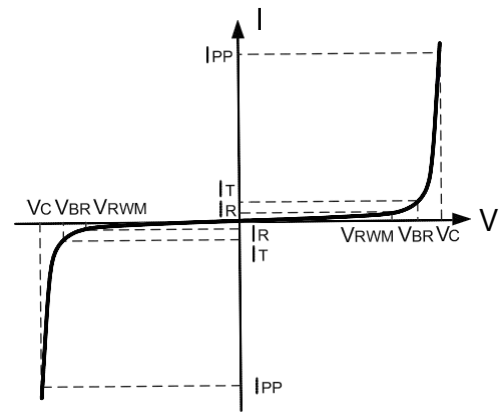
Rating	Symbol	Value	Units
Peak Pulse Power ( $t_p = 8/20\mu s$ )	$P_{pp}$	70	W
Peak Pulse Current ( $t_p = 8/20\mu s$ ) (note1)	$I_{pp}$	9	A
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	$V_{ESD}$	30 30	kV
Lead Soldering Temperature	$T_L$	260/10S	$^{\circ}C$
Junction Temperature	$T_J$	-55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

**Electrical Characteristics**

Parameter	Symbol	Conditions	Min	Typical	Max	Units
Reverse Stand-Off Voltage	$V_{RWM}$				3.3	V
Reverse Breakdown Voltage	$V_{BR}$	$I_T=1mA$	3.4	4.0		V
Reverse Leakage Current	$I_R$	$V_{RWM}=3.3V, T=25^\circ C$			0.2	$\mu A$
Peak Pulse Current	$I_{PP}$	$t_p=8/20\mu s$			9	A
Clamping Voltage <sup>1)</sup>	$V_{CL}$	$I_{PF}=16A, t_p=100ns$		8		V
Clamping Voltage <sup>2)</sup>	$V_C$	$I_{PF}=1A, t_p=8/20\mu s$		5		V
Clamping Voltage <sup>2)</sup>		$I_{PF}=9A, t_p=8/20\mu s$		8	13	V
Junction Capacitance	$C_j$	$V_R = 0V, f = 1MHz$		12	17	pF

**Electrical Parameters (TA = 25°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



Note: 8/20 $\mu s$  pulse waveform.

## Typical Characteristics

Figure 1: Peak Pulse Power vs. Pulse Time

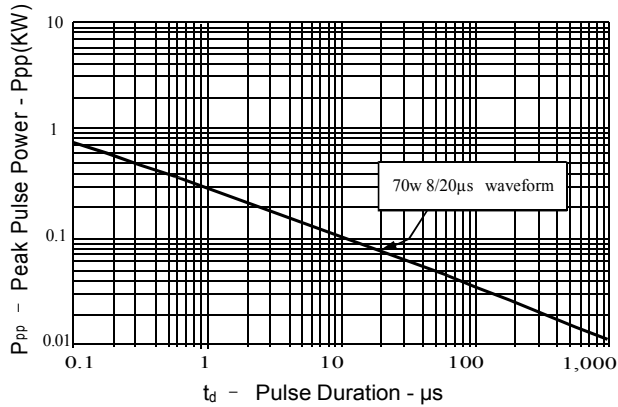


Figure 2: Power Derating Curve

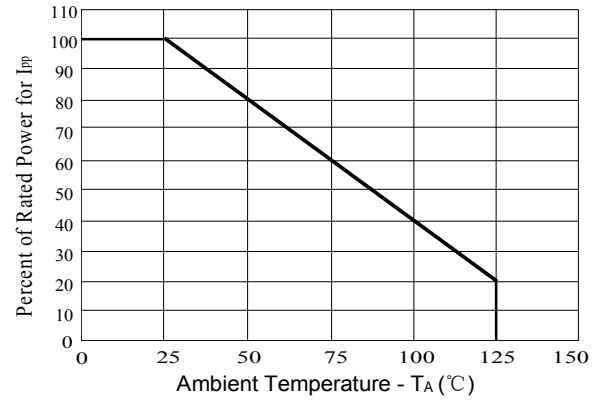


Figure 3: Pulse Waveform

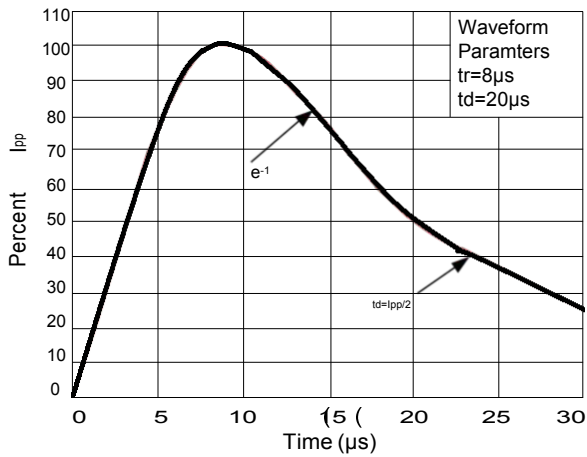
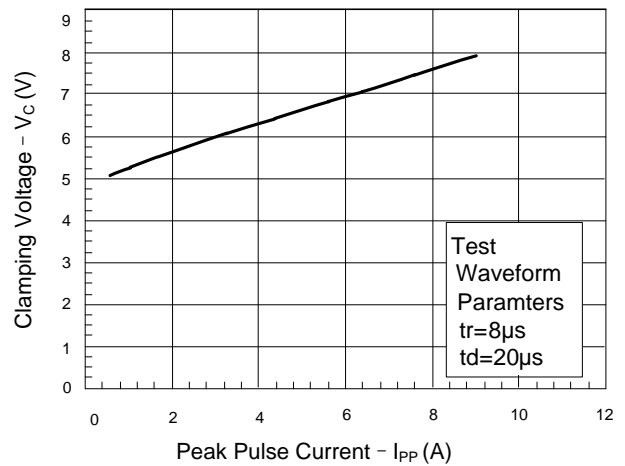
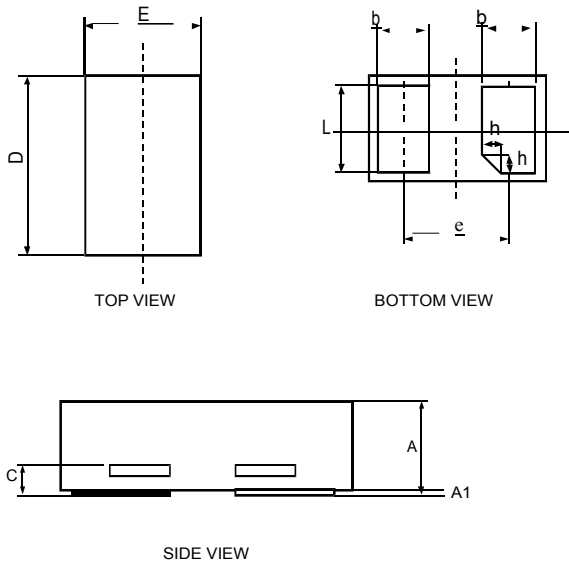


Figure 4: Clamping Voltage vs.  $I_{pp}$

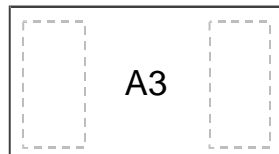


### Outline Drawing –DFN0603-2



Symbol	Dimensions in millimeters		
	Min	Nom	Max
A	0.28	0.30	0.32
A1	0.00	0.02	0.05
C	0.05	0.10	0.15
D	0.55	0.60	0.65
E	0.25	0.30	0.35
e	0.34	0.35	0.37
b	0.14	0.19	0.24
L	0.20	0.25	0.30
h	0	0.05	0.10

### Marking



### Ordering information

Order code	Package	Baseqty	Delivery mode
UMW PESD3V3V1BCSF	DFN0603-2	10000	Tape and reel

单击下面可查看定价，库存，交付和生命周期等信息

[>>UMW\(友台半导体\)](#)