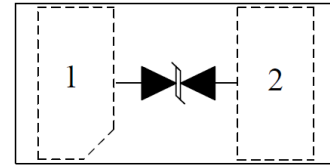


## Features

- 50 Watts Peak Pulse Power per Line ( $t_p = 8/20\mu s$ )
- Bidirectional Configuration
- Protects One Power or I/O Port
- ESD Protection > 40 kilovolts
- Low Clamping Voltages



DFN0603

## IEC Compatibility (EN61000-4)

- IEC 61000-4-2 (ESD) : $\pm 20kV$  (air),  $\pm 15kV$  (contact)
- IEC 61000-4-4 (EFT) :40A (5/50ns)
- IEC 61000-4-5(Surge): 4A, 8/20 $\mu s$

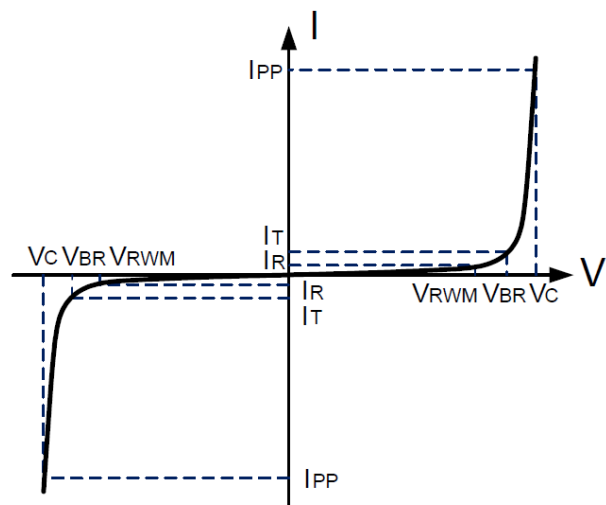
## Applications

- Ethernet - 10/100/1000 Base T
- Cellular Phones
- Handheld - Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

## Electrical Parameters

Parameter	Symbol	Value	Units
Peak pulse power ( $t_p=8/20\mu s$ )	$P_{PP}$	50	Watts
Operating Temperature	$T_J$	$-55^{\circ}C \sim 125^{\circ}C$	$^{\circ}C$
Storage Temperature	$T_{STG}$	$-55^{\circ}C \sim 150^{\circ}C$	$^{\circ}C$

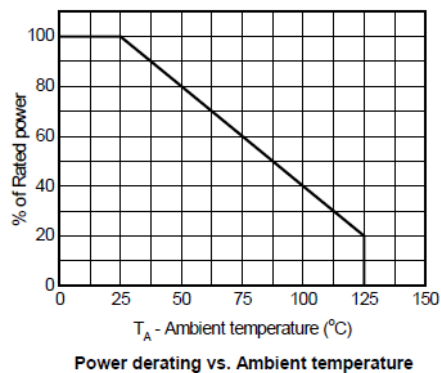
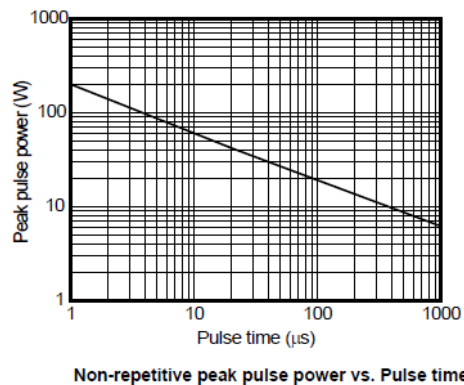
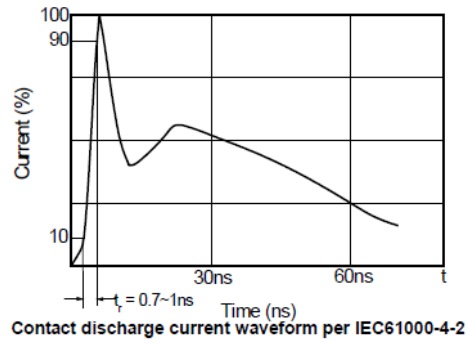
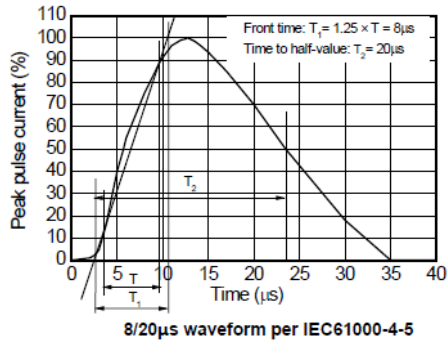
Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
$I_F$	Forward Current
$V_F$	Forward Voltage @ $I_F$



**Ratings and characteristic curves ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

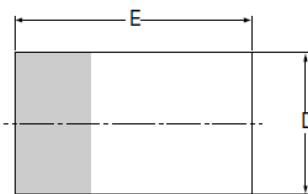
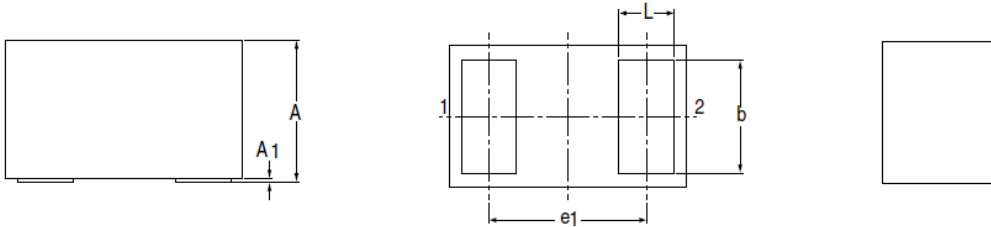
Parameter	Symbol	Condition	Min	Max	Units
Reverse Stand-off Voltage	$V_{RWM}$	Pin2 to 1/Pin1 to 2		5.0	V
Reverse Breakdown Voltage	$V_{BR}(\text{min})$	$I_Z=1\text{mA}$	6.0		V
Reverse Leakage Current	$I_R(\text{max})$	@ $V_{RWM}$		0.2	$\mu\text{A}$
Clamping Voltage	$V_C$	$I_{PP}=4\text{A}$ $t_p=8/20\mu\text{s}$		11	V
Peak Pulse Current	$I_{PP}$	$t_p=8/20\mu\text{s}$	4		A
Junction Capacitance	$C_{I/O}$	Pin capacitance to GND. $V_{dc}=0\text{V},f=1\text{MHZ}$		0.5	pf

**Typical Characteristics**



**Dimensions**

**DFN0603**



Dimensions

Unit	A <sup>(1)</sup>	A <sub>1</sub>	b	D	E	e <sub>1</sub>	L
mm	max 0.32	0.0076	0.25	0.325	0.625		0.15
	nom					0.4	
	min 0.28		0.23	0.275	0.575		0.13

Note

1. Dimension A is including coating foil thickness.
2. The marking bar indicates the cathode.

**attenn (Unit: mm)**

**Recommened Mounting Pad Layout** Unit:mm

