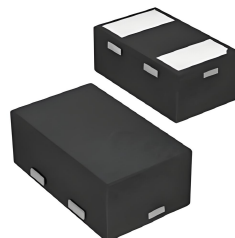


Features

- 105W (tp=8/20μs) Peak Pulse Power
- Bi-directional configurations
- Low clamping voltage
- Low leakage current
- Moisture sensitivity level: Level 1
- Solid-state silicon avalanche technology
- Meet IEC61000-4-2
 - Contact discharge ±30kV
 - Air discharge ±30kV



Applications

- Video I/O ports protection
- Set Top Boxes
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Pagers Peripherals

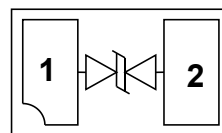
Meachanical Data

- DFN0603-2L package
- Molding compound flammability rating: UL94V-0
- Packaging: Tape and Reel(7 inch)

Agency Approvals

Icon	Description
RoHS	Compliance with (EU)2015/863
HF	Compliance with IEC61249-2-21:2003
	Mean lead free

Schematic & PIN Configuration



Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Peak Pulse Power($t_p=8/20\mu s$)	P_{PK}	105	W
Peak Pulse Current($t_p=8/20\mu s$)	I_{PP}	6.5	A
Lead Soldering Temperature	T_L	260(10seconds)	$^{\circ}C$
Operating Junction Temperature	T_J	-55 to +150	$^{\circ}C$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}C$

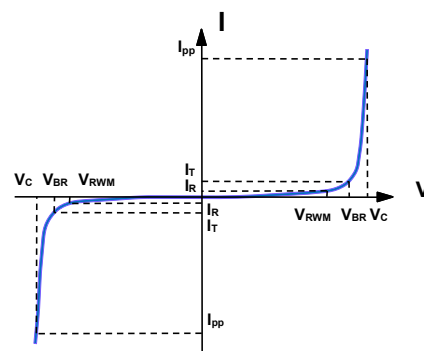
Electrical Characteristics (TA=25 $^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Stand-Off Voltage	V_{RWM}				7	V
Breakdown Voltage	V_{BR}	$I_T = 1mA$	7.6		9	V
Reverse Leakage Current	I_R	$V_{RWM} = 7V$			100	nA
Clamping Voltage	V_C	$I_{PP} = 1A, t_p=8/20\mu s$		9	12	V
Clamping Voltage	V_C	$I_{PP} = 6.5A, t_p=8/20\mu s$		10	16	V
Junction Capacitance	C_J	$V_R = 0V, f = 1MHz$		15	20	pF

I-V Curve Characteristics

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

Note: 8/20 μs pulse waveform.



Characteristics Curreves(TA=25°C unless otherwise Specified)

Fig 1. 8/20μs Pulse Waveform

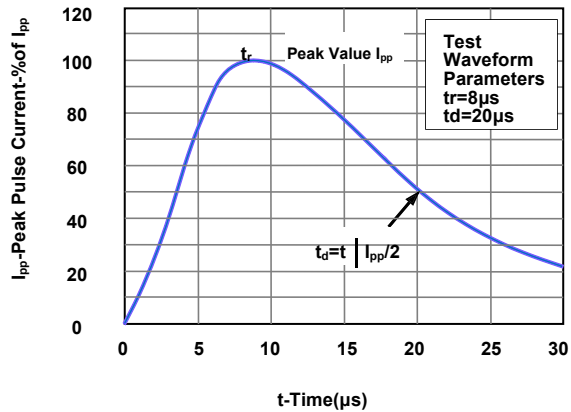


Fig 2. ESD Pulse Waveform (according to IEC61000-4-2)

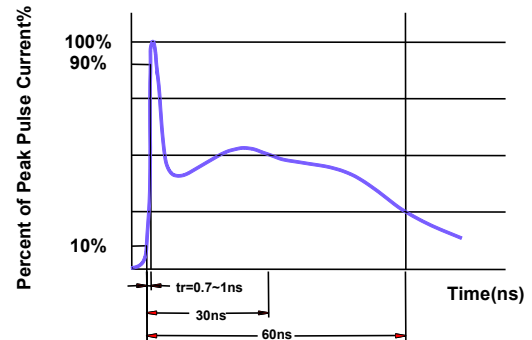


Fig 3. Power Derating Curve

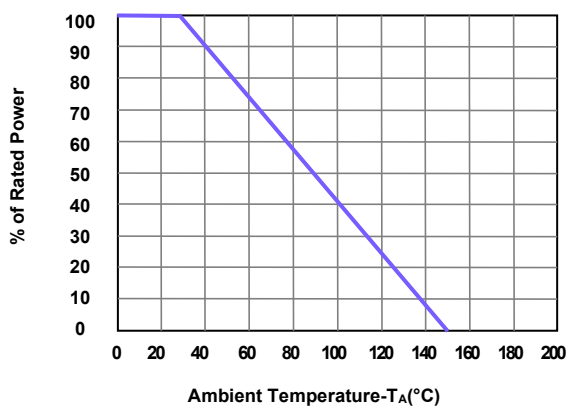
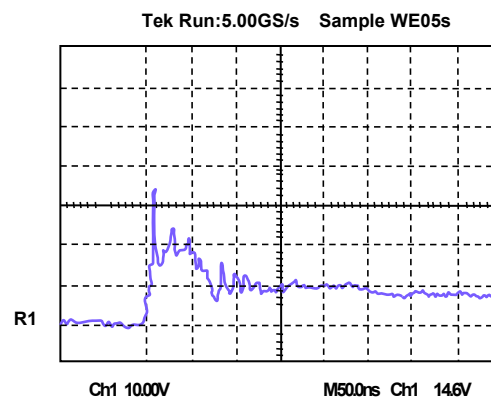


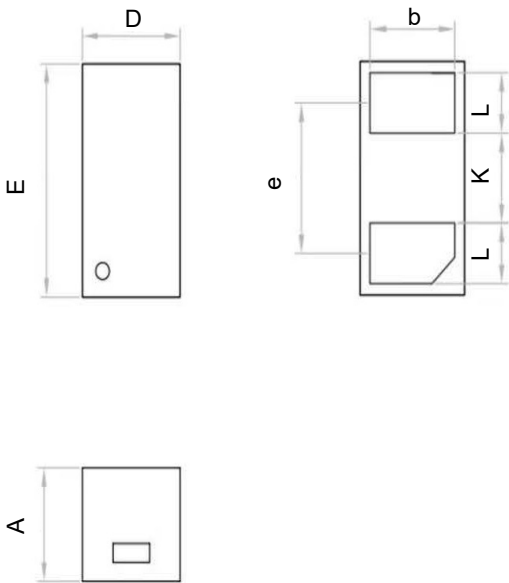
Figure 4.ESD Clamping(8KV Contact per IEC61000-4-2)



Marking Information

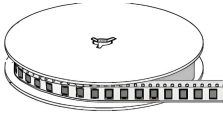
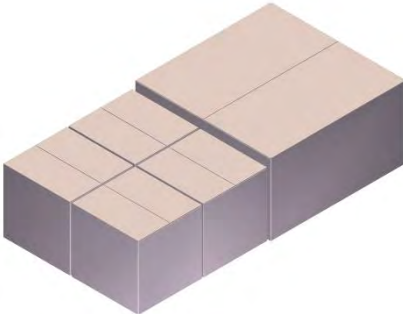
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DFN0603-2L Package Outline



SYM	DIMENSIONS					
	MILLIMETERS			INCHES		
	Min	Typ	Max	Min	Typ	Max
A	0.30	0.32	0.35	0.0106	0.0125	0.0137
b	0.22	0.22	0.26	0.0086	0.0086	0.0102
D	0.27	0.30	0.33	0.0106	0.0118	0.0129
e	0.40BSC			0.0157BSC		
E	0.57	0.60	0.63	0.0224	0.0236	0.0248
L	0.14	0.16	0.18	0.0055	0.0062	0.0070
K	0.20	0.24	0.25	0.0078	0.0094	0.0098

Packaging Information

	Reel	Inner Box	Carton
Size	φ178mm(7 inch)	215×205×205mm	435×435×230mm
Quantity	MPQ/MOQ: 1 reel=10000pcs	1 Inner box=10 reels=100,000pcs	1Carton=4 Inner boxes=400,000pcs
Photos			

Notice: 1、 Each reel is placed in an aluminum foil bag and vacuum-packed separately.
2、 Above packaging photos make from 3D software for reference only, please refer to actual product as the standard.