

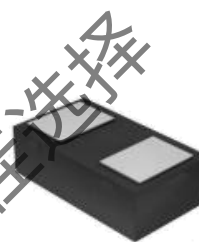
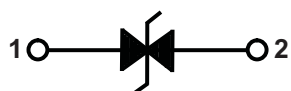
Features

- 70W Peak Pulse Power Per Line(8/20us)
- 5V Working Peak Reverse Voltage
- Rated Peak Pulse Current:7A
- ESD per IEC 61000-4-2(Contact):25KV
- ESD per IEC 61000-4-2(Air):25KV
- Clamping Voltage @IPP=1A:6V
- Junction Capacitance:15PF
- Package:DFN0603-2L(0201)
- Polarity: Bidirectional

Mechanical Characteristics

- Mechanical Characteristics
- Lead Finish: NiPdAu
- Case Material: “ Green ” Molding Compound.
- UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 3 per J-STD-020
- Terminal Connections: See Diagram Below
- Marking Information: See Below

Schematic And Configuration



DFN0603-2L(Bottom View)

Absolute Maximum Ratings (Ta=25°C,RH=45%-75%,unless otherwise noted)

Parameter	Symbol	Value	Unit
Operating Temperature Range	Tj	-55~+150	°C
Storage Temperature Range	Tstg	-55~+150	°C

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Min	Type	Max	Unit	Test Condition
Reverse Working Voltage	Vrwm			5	V	
Breakdown Voltage	Vbr	5.6			V	It=1mA
Reverse Leakage Current	Ir			0.1	uA	Vrwm=5V
Clamping Voltage	Vc			6	V	Ipp=1A(8×20us pulse)
Juntion Capacitance	Cj		15	18	pF	Vr=0V,f=1MHz

Typical Performance Characteristics (Ta=25°C, unless otherwise noted)

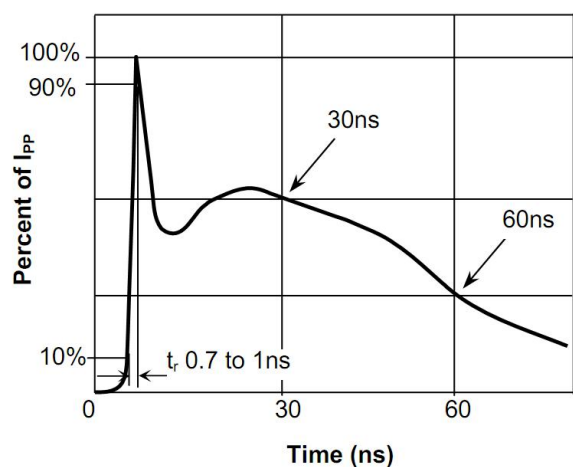


Fig.1 Pulse Waveform-ESD (IEC61000-4-2)

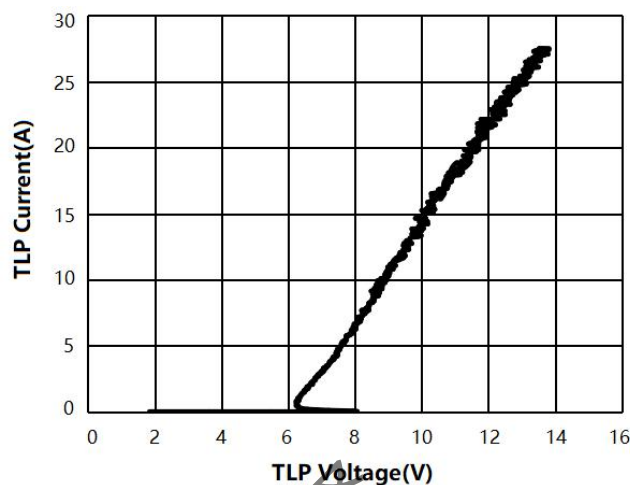


Fig.2 Transmission Line Pulse (TLP)

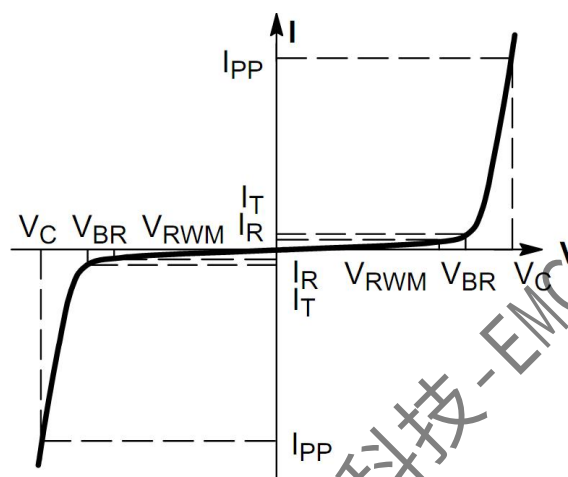


Fig.3 V-I Characteristics for Bidirectional Diode

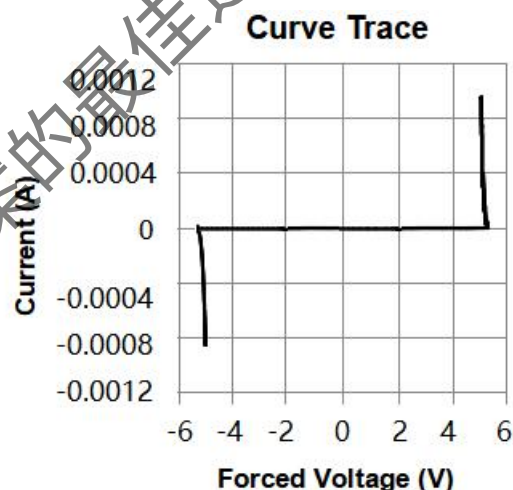
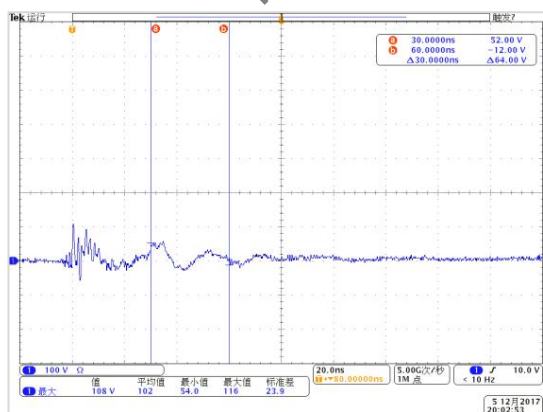
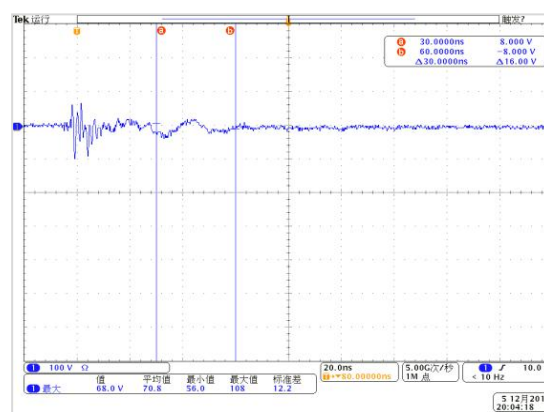
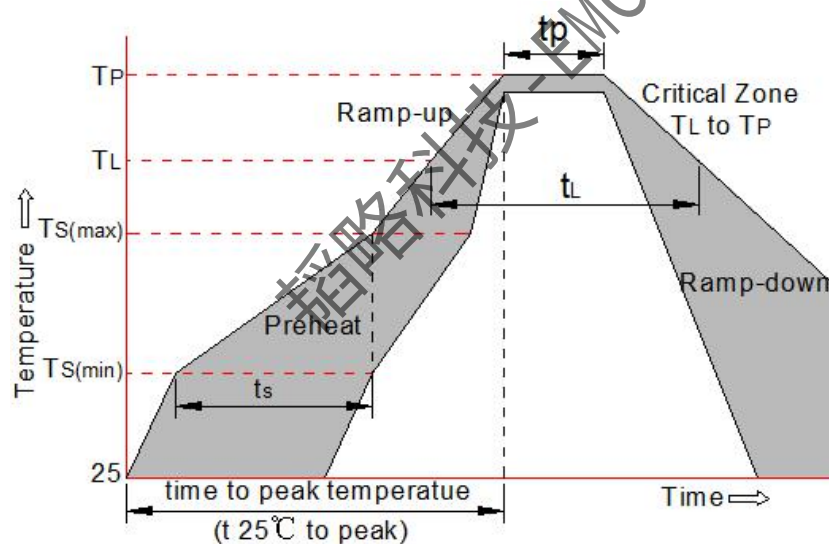


Fig.4 IV Curve

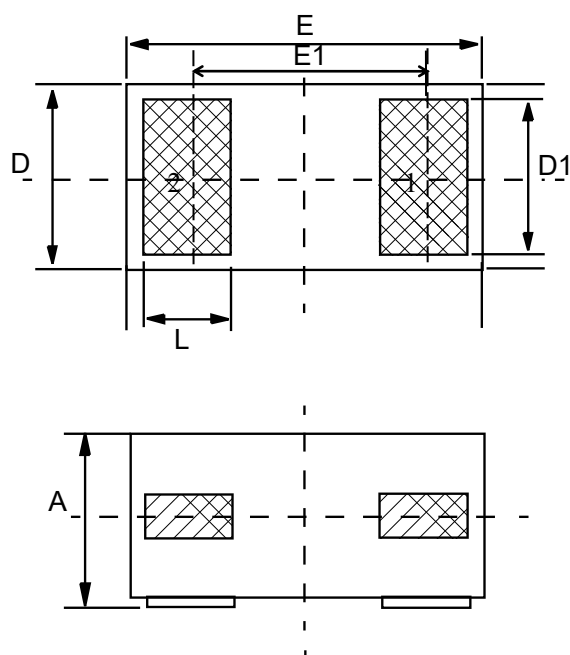
Fig.5 Clamping Voltage at IEC61000-4-2
+8kV Pulse WaveformFig.6 Clamping Voltage at IEC61000-4-2
-8kV Pulse Waveform

Soldering Parameters

Reflow Condition		Pb-Free Assembly (see as bellow)
Pre Heat	-Temperature Min ($T_{s(min)}$)	+150°C
	-Temperature Max($T_{s(max)}$)	+200°C
	-Time (Min to Max) (t_s)	60-180 secs.
Average ramp up rate (Liquid us Temp (T_L) to peak)		3°C/sec. Max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/sec. Max
Reflow	-Temperature(T_L) (Liquid us)	+217°C
	-Temperature(t_L)	60-150 secs.
Peak Temp (T_p)		+260(+0/-5)°C
Time within 5°C of actual Peak Temp (t_p)		30 secs. Max
Ramp-down Rate		6°C/sec. Max
Time 25°C to Peak Temp (T_p)		8 min. Max
Do not exceed		+260°C

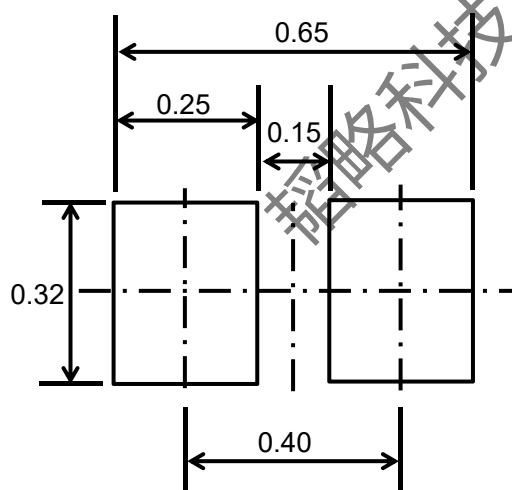


Package Mechanical Data



Dim	Millimeters		
	MIN	Typ.	MAX
A	0.290	0.320	0.350
D	0.290	0.320	0.350
E	0.590	0.620	0.650
D1	0.220	0.250	0.280
E1	0.340	0.370	0.400
L	0.160	0.190	0.220

Suggested Land Pattern



Unit:mm

Contact Information

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