

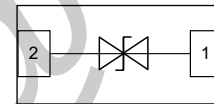
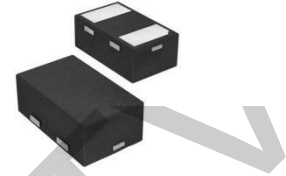
Features

- Capacitance: 15pF typical
- Reverse Working Voltage: 5V
- IEC 61000-4-2 (ESD Air): $\pm 25\text{kV}$
- IEC 61000-4-2 (ESD Contact): $\pm 25\text{kV}$
- IEC 61000-4-5 (Lightning 8/20 μs): 7A

Mechanical Data

- Package: DFN0603 (0.62 x 0.32 x 0.32mm)
- Lead-free and RoHS compliant
- Ultra-small form factor

DFN0603-2L



Applications

- Smart Phone and Tablet PC
- TV and Set Top Box
- Wearable Devices
- PDA

Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
DCE0506D2	-	DFN0603	Tape and reel	10000pcs / reel	EIA STD RS-481

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu\text{s}$)	P_{PP}	70	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	$\pm 25/\pm 25$	kV
Peak Pulse Current ($T_P = 8/20\mu\text{s}$)	I_{PP}	7	A
Junction Temperature	T_J	-55 to +125	°C
Operation temperature	T_{OP}	-55 to +125	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

(T_A = 25 °C unless otherwise specified)

Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V _{RWM}		-	-	5.0	V
Holding Voltage	V _{BR}	I _T = 1mA	5.6	6.5	8.4	V
Reverse Leakage Current	I _R	V _{RWM} = 5V	-	-	0.1	uA
Clamping Voltage	V _C	I _{PP} = 1A, t _p = 8/20μs	-	-	6	V
Clamping Voltage	V _C	I _{PP} = 7A, t _p = 8/20μs	-	-	10	V
Junction Capacitance	C _J	V _R = 0V, f = 1MHz	-	15	18	pF

Typical Characteristics

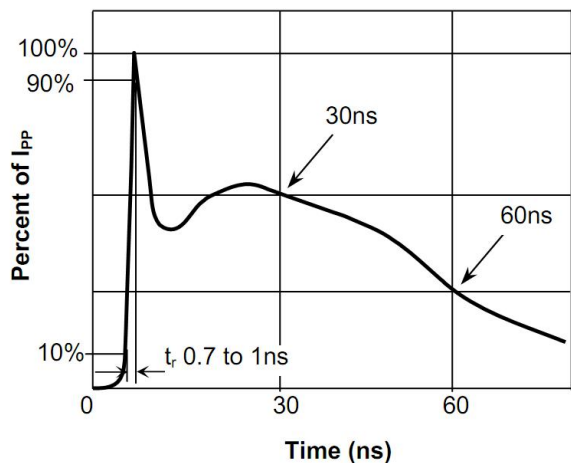


Fig.1 Pulse Waveform-ESD (IEC61000-4-2)

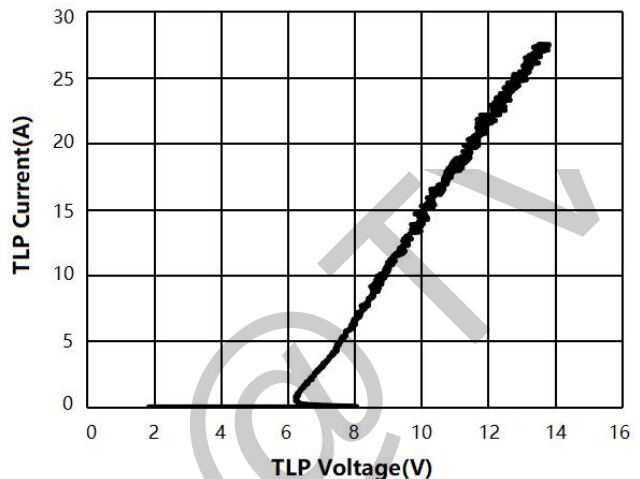


Fig.2 Transmission Line Pulse (TLP)

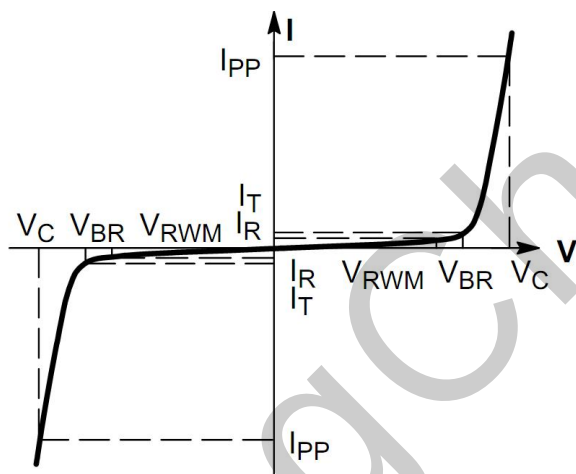


Fig.3 V-I Characteristics for Bidirectional Diode

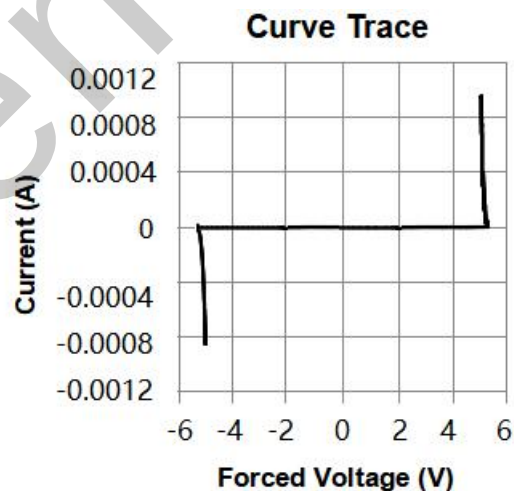


Fig.4 IV Curve

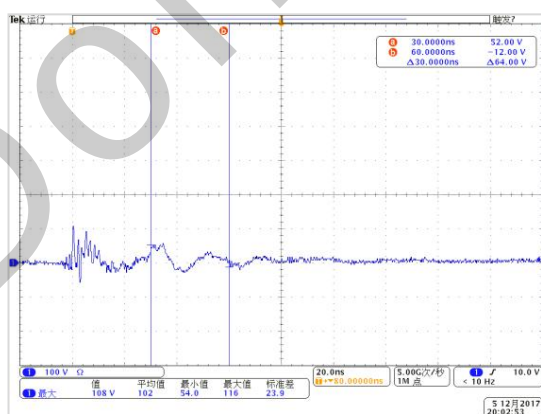


Fig.5 Clamping Voltage at IEC61000-4-2
+8kV Pulse Waveform

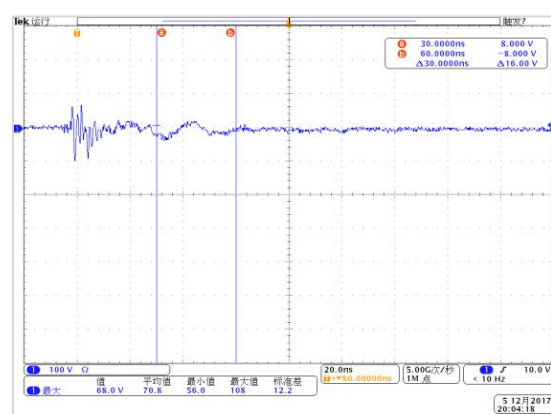
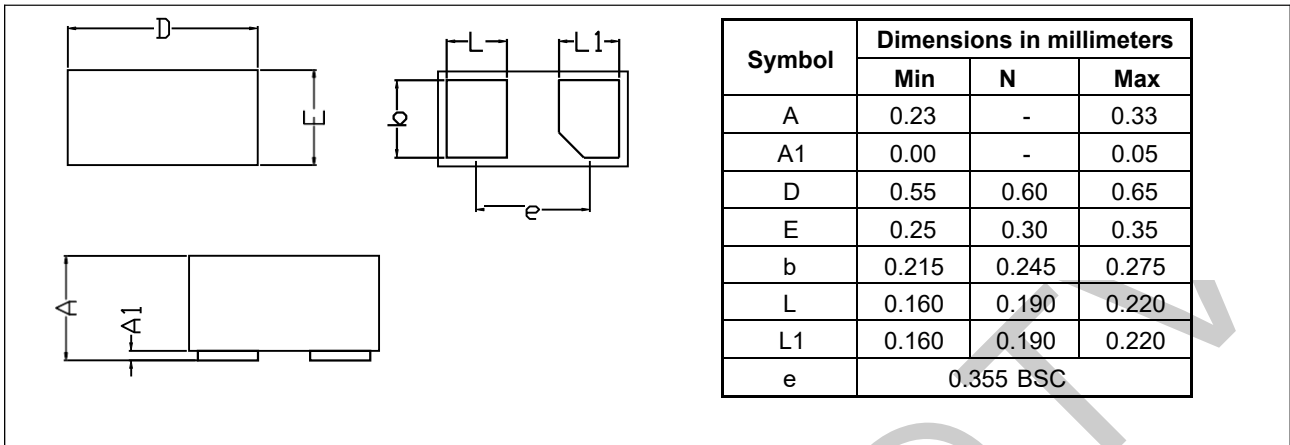
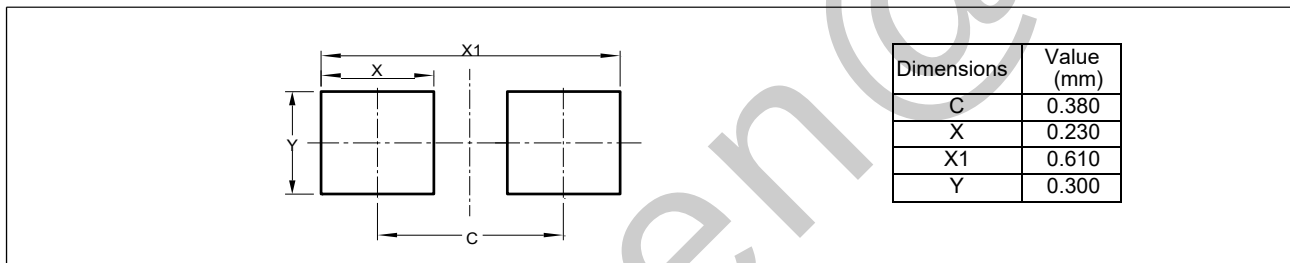


Fig.6 Clamping Voltage at IEC61000-4-2
-8kV Pulse Waveform

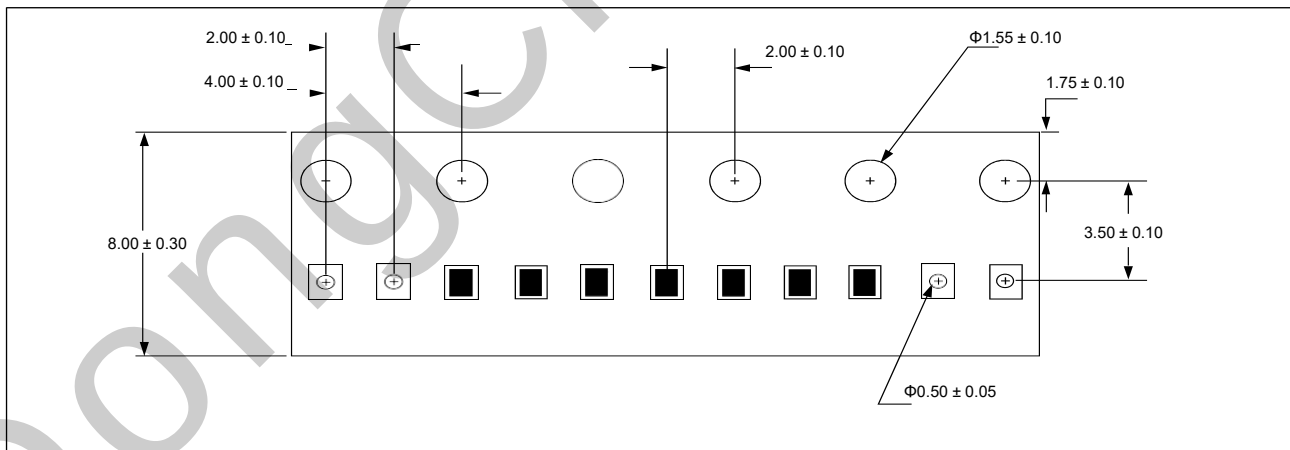
Package Dimensions



Pad Dimensions



Package Information



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