

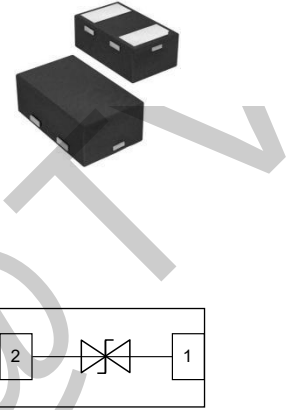
Features

- Miniaturized package: 0.6 x 0.3 mm
- Standard Capacitance: 15pF
- Low Clamping Voltage: $V_C = 10V @ I_{PP} = 6A$
- Reverse Working Voltage: 5.0V
- Low Leakage Current
- Response Time < 1 ns

Mechanical Data

- Package: DFN0603-2L (0.6 x 0.3 mm)
- Lead-free and RoHS compliant
- Bi-directional design
- Ultra-small form factor

DFN0603-2L



Applications

- Smartphones and Tablet Computers
- Blu-ray and DVD Recorders/Players
- Video Equipment and Accessories

Ordering information

Order code	Marking	Package	Packaging option	Base quantity	Packaging specification
DCE0506A06	A5	DFN0603-2L	Tape and reel	10000pcs / reel	EIA STD RS-481

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

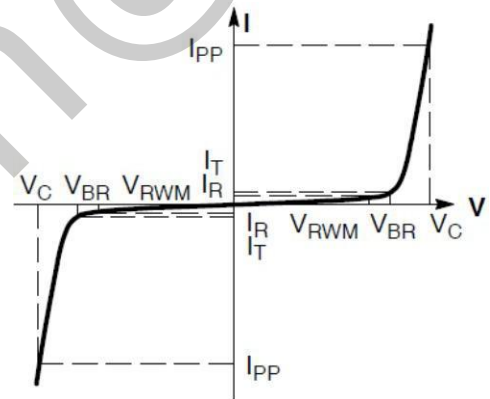
Parameter	Symbol	Value	Unit
Peak Pulse Power ($T_P=8/20\mu s$)	P_{PP}	60	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	$\pm 30/\pm 30$	kV
Peak Pulse Current ($T_P = 8/20\mu s$)	I_{PP}	6	A
Junction Temperature	T_J	-55 to +150	°C
Operation temperature	T_{OP}	-55 to +150	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics

($T_A = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)

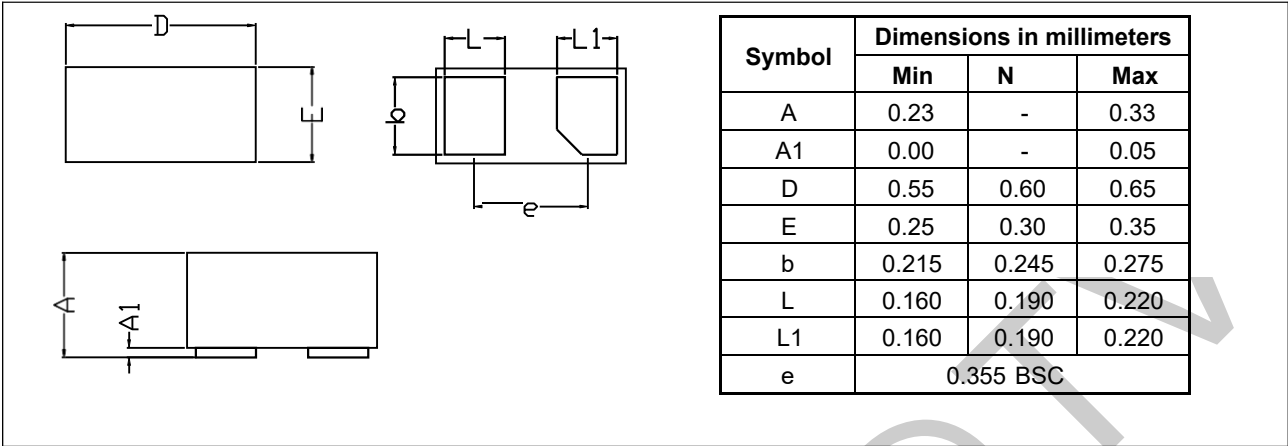
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse stand-off Voltage	V_{RWM}		-	-	5.0	V
Holding Voltage	V_{BR}	$I_T = 1\text{mA}$	5.6	-	8	V
Reverse Leakage Current	I_R	$V_{RWM} = 5.0\text{V}$	-	-	0.1	μA
Clamping Voltage	V_C	$I_{PP} = 1\text{A}, t_p = 8/20\mu\text{s}$	-	-	8.5	V
Clamping Voltage	V_C	$I_{PP} = 6\text{A}, t_p = 8/20\mu\text{s}$	-	-	10	V
Junction Capacitance	C_J	$V_R = 0\text{V}, f = 1\text{MHz}$	-	15	-	pF

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}
I_T	Test Current
V_{BR}	Breakdown Voltage @ I_T
P_{PK}	Peak Power Dissipation
C	Max. Capacitance @ $V_R = 0$ and freq.=1 MHz

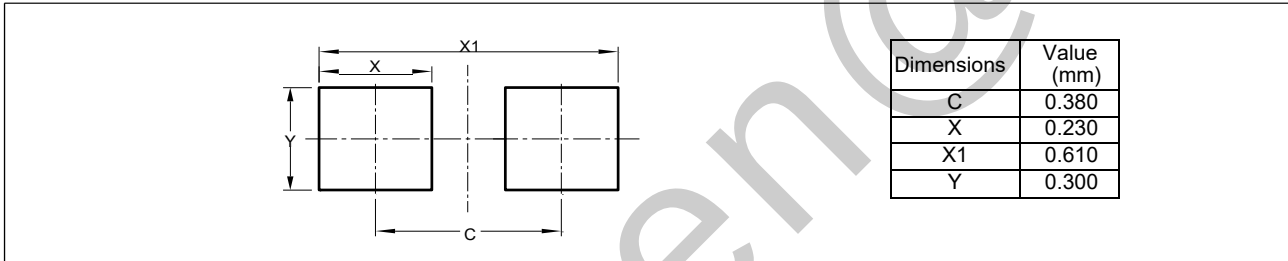


Bidirectional ESD Protection Diode

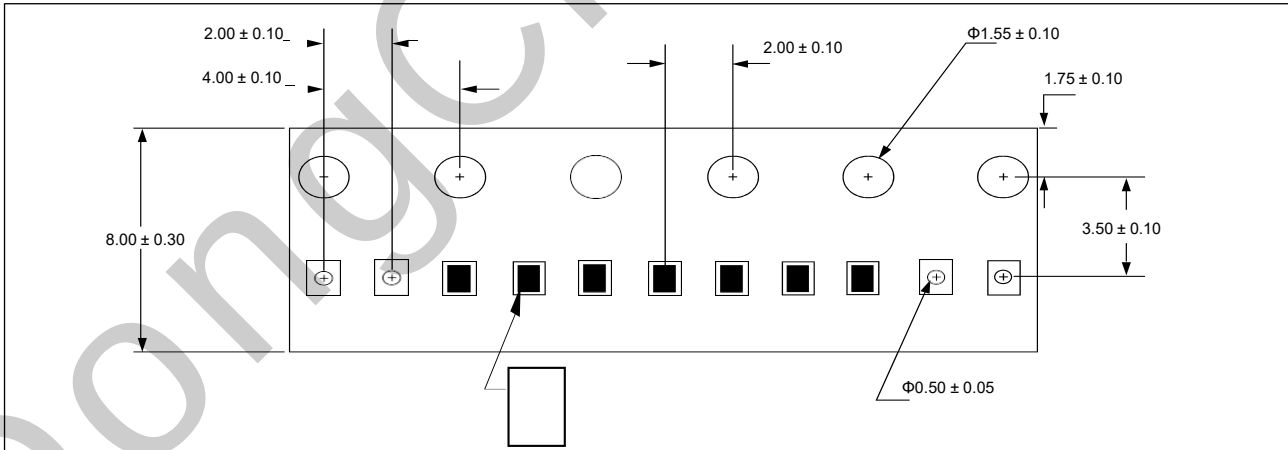
Package Dimensions



Pad Dimensions



Package Information



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The products listed in this document are designed to be used with ordinary electronic equipment or devices.

Should you intend to use these products with equipment or devices which require an extremely high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, aerospace machinery, nuclear-reactor controllers, fuel controllers, and other safety devices), please be sure to consult with our sales representative in advance.

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