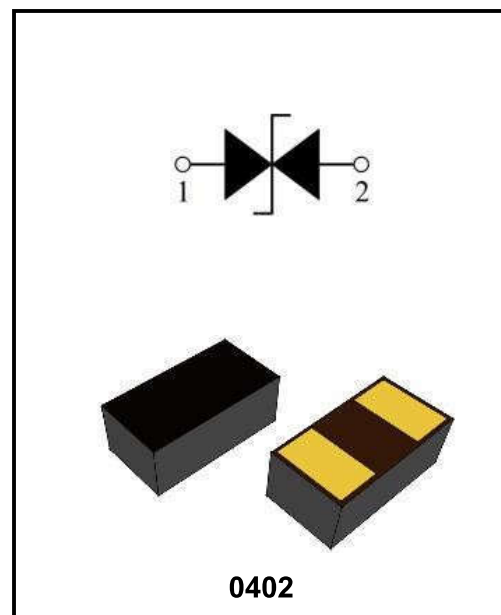


- ◇ Bi-Directional Transient Voltage Suppressor
- ◇ Low Leakage
- ◇ Response Time is Typically < 1 ns
- ◇ IEC61000-4-2 Level 4 ESD Protection
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)



Marking Code	
ESD0402C17	K

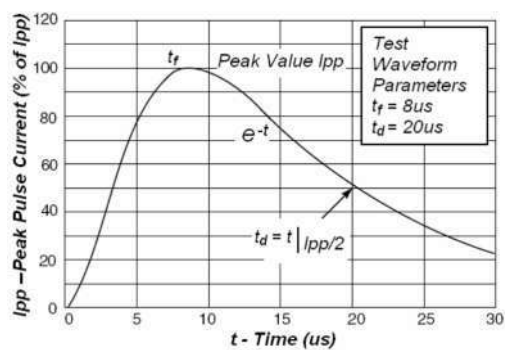
Maximum Rating (TA = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{ESD-Air}	ESD Voltage IEC61000-4-2 Air	±20	kV
V _{ESD-Contact}	ESD Voltage IEC61000-4-2 Contact	±20	kV
PD	Total Power Dissipation on FR-5 Board	200	mW
T _J	Junction Temperature	-55 to 150	°C
T _{STG}	Storage Temperature	-55 to 150	°C
TL	Lead Solder Temperature - Maximum (10 Second Duration)	260	°C

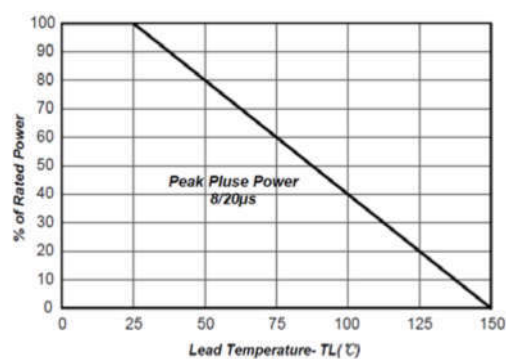
Electrical Parameters (TA = 25°C unless otherwise noted)

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V _{RWM}	Reverse Working Peak Voltage				17	V
V _{BR}	Reverse Breakdown Voltage	I _T = 1mA	13.3	14.5	16	V
I _R	Reverse Current	V _{RWM} = 17V			1.0	μA
V _C	Clamping Voltage	I _{pp} = 3.5			24	V
C	Capacitance	V _R = 0V, f = 1MHz	3.5	6.5	9.5	pF

Typical Characteristics



Pulse Waveform



Power Derating Curve

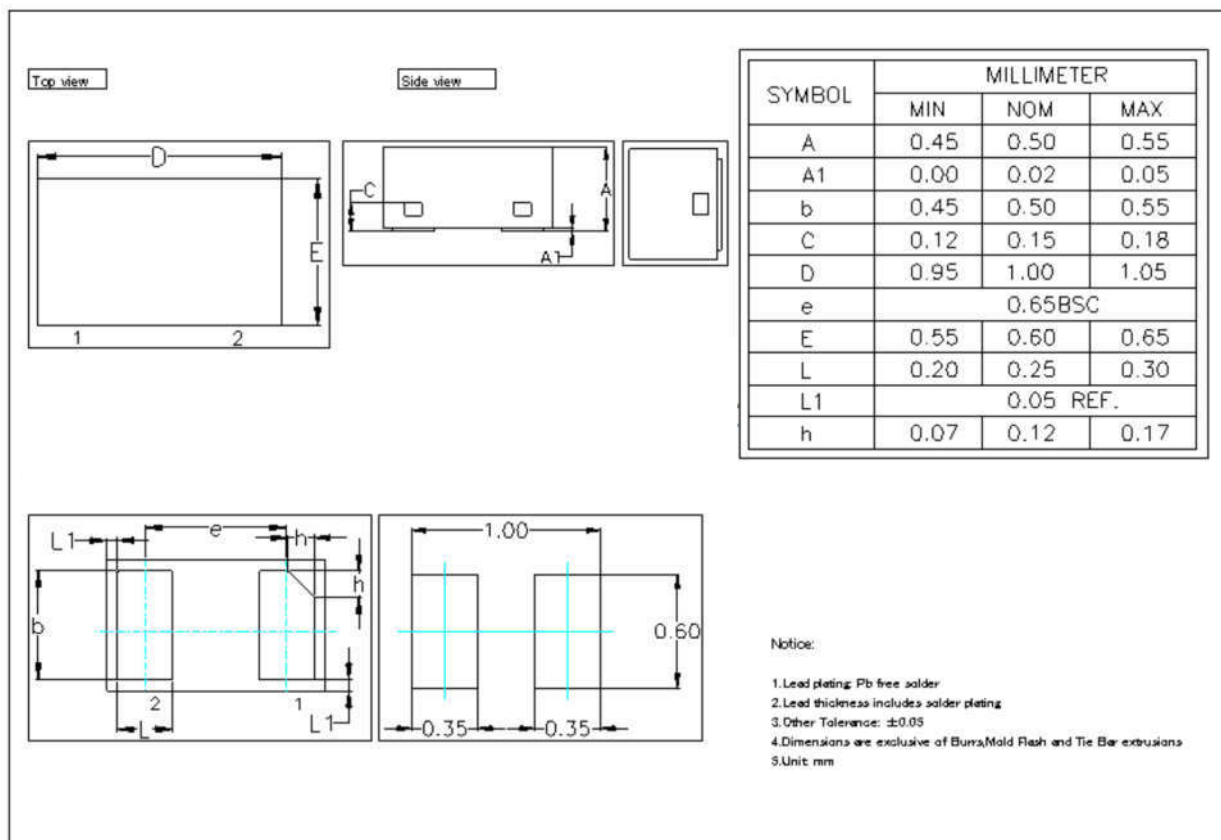


Positive 8kV contact per IEC 61000-4-2



Negative 8kV contact per IEC 61000-4-2

Package Dimension



Ordering information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
ESD0402C17	0402	Tape & Reel 10000pcs /7" Reel	8mm	4mm	Conductive	

Disclaimer

The information presented in this document is for reference only. GuangDong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.