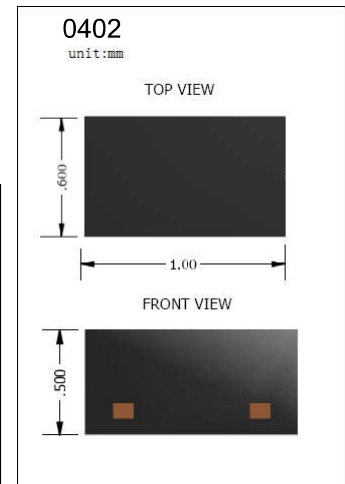
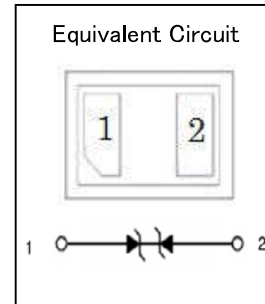


- ◇ Bi-Directional Transient Voltage Suppressor
- ◇ Low Leakage
- ◇ Response Time is Typically < 1 ns
- ◇ IEC61000-4-2 Level 4 ESD Protection
- ◇ ROHS Compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)

Device Marking Code	
ESD0402C17	K



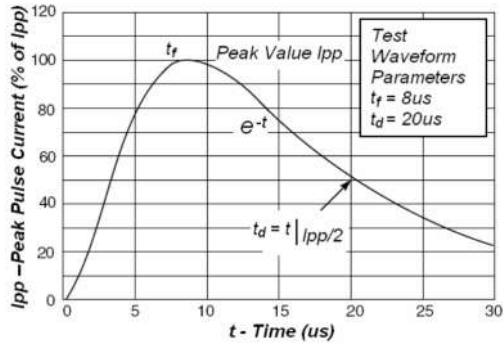
**Maximum Ratings (Ta = 25 °C)**

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

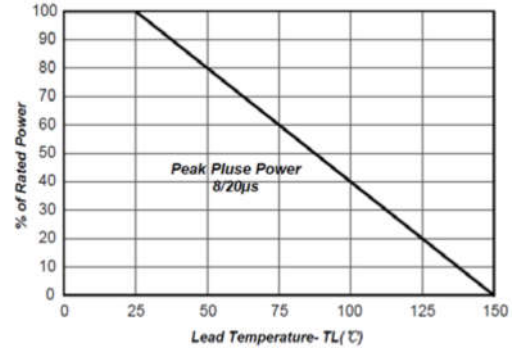
**Electrical Characteristics (Ta = 25 °C Unless Otherwise Noted)**

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V <sub>RWM</sub>	Reverse Working Peak Voltage				17	V
V <sub>BR</sub>	Reverse Breakdown Voltage	I <sub>T</sub> = 1mA	13.3	14.5	16	V
I <sub>R</sub>	Reverse Current	V <sub>RWM</sub> = 17V			1.0	μA
V <sub>C</sub>	Clamping Voltage	I <sub>pp</sub> = 3.5			24	V
C	Capacitance	V <sub>R</sub> = 0V, f = 1MHz	3.5	6.5	9.5	pF

Typical Characteristics



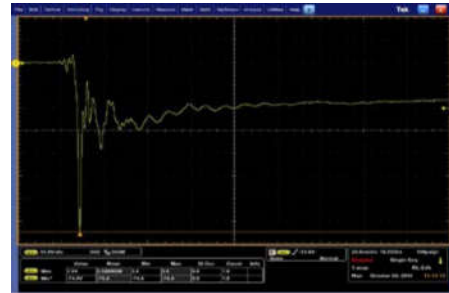
Pulse Waveform



Power Derating Curve



Positive 8kV contact per IEC 61000-4-2



Negative 8kV contact per IEC 61000-4-2

**Ordering Information**

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

**Package Dimensions**

