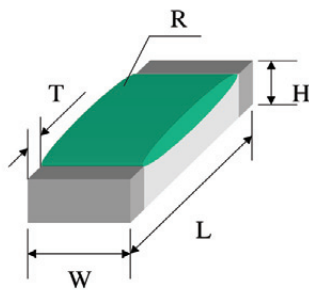


**FEATURES :**

- \* 1608 mm [ 0603" Size ]
- \* RoHS-Compliant Products
- \* Bi-directional
- \* (0.15pF Max.) Ultra-low Capacitance
- \* Fast Response Time
- \* (< 0.1nA) Low Leakage Current

## 1608 SGX

**DIMENSIONS:**

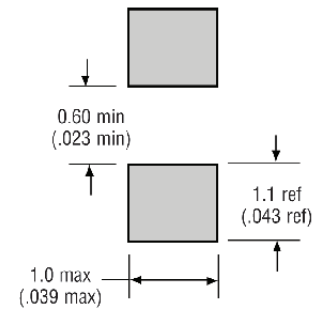


Unit : mm  
[Inches]

EIA Size	L	W	H	T	R
0603ESDA	1.60 ± 0.10 (.063 ± .004)	0.80 ± 0.10 (.031 ± .004)	0.50 ± 0.10 (.020 ± .004)	0.30 ± 0.10 (.08 ± .004)	0.70 ± .10 (.028 ± .005)

**PAD PATTERN:**

**Recommended Solder Pad Outline**  
(per IPC-SM-782)



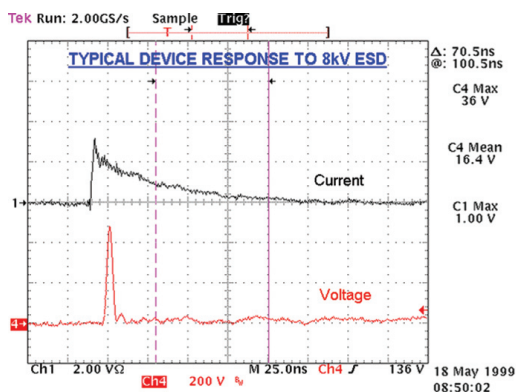
**Part Ratings and Characteristics:**

Performance Characteristics	Units	Min	Typ	Max
Continuous operating voltage	VDC	-	-	24
Clamping voltage <sup>2</sup>	V	-	35	60
Trigger voltage <sup>3</sup>	V	-	125	-
ESD Threat voltage capability <sup>4</sup>	kV	-	8	15
Capacitance (@ 1 KHz ~ 1.8GHz)	pF	-	-	0.15
Leakage current (@ 12 VDC)	nA	0.01	<0.1	-
Peak current <sup>2</sup>	A	-	30	45
Operating temperature	°C	-56	+25	+105
ESD pulse withstand <sup>2</sup>	# pulses	20	>500 <sup>1</sup>	-

**Notes:**

1. Some shifting in characteristics may occur when tested over several hundred ESD pulses at very rapid rate of 1 pulse per second or faster.
2. Per IEC 61000-4-2, 30A @ 8kV, level 4, clamp measurement made 30ns after initiation of pulse, all tests in contact discharge mode.
3. Trigger measurement made using Transmission Line Pulse (TLP) method
4. PolySURG™ devices are capable of withstanding up to a 15 kV, 45A ESD pulse. Device ratings are given at 8kV per Note 1, unless otherwise specified.

**Typical Device Response to 8kV ESD**



**Signal distortion comparisons at 800Mbps**

