

RoHS

◆ Feature

1. Protection against high ESD voltage and current
2. Compact size for EIA 1206
3. Extremely quick response Time (<1ns)
4. Extremely low capacitance (<0.5pF)
5. Extremely low leakage current
6. Zero signal distortion
7. Bi-directional



◆ Application

EGA Array is applied to RF module, Antenna circuit, IEEE-1394, USB2.0, DVI, HDMI and DisplayPort...etc. high speed signal interface.

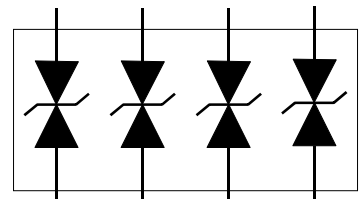
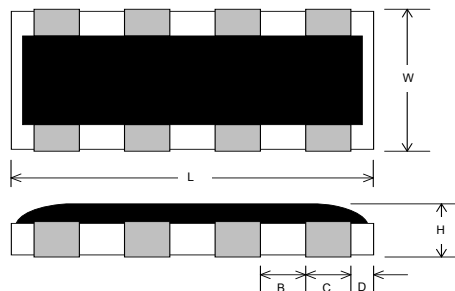
◆ How to Order

- | | | | | | |
|------------|----------|-------------|------------|----------|-----|
| <u>EGA</u> | <u>4</u> | <u>1206</u> | <u>V12</u> | <u>A</u> | □ |
| (1) | (2) | (3) | (4) | (5) | (6) |
- (1) Series Type: ESD Guard™ Series
 - (2) Elements Per Chip
 - (3) Chip Size(EIA): 1206
 - (4) Rated Voltage, V_{DC}
 - (5) Model Code
 - (6) Suffix for Special Code

◆ Dimension

Unit: mm

Size EIA (EIAJ)	1206 (3216)
L	3.20±0.1
W	1.60±0.1
H	0.50±0.1
B	0.40±0.2
C	0.40±0.2
D	0.20±0.1



◆ Specification

Part Number	EGA41206V12A
Maximum Operating Voltage (V_{DC})	12V
Leakage Current ¹ (I_L)	0.01 μ A
Capacitance ² , @1MHz(C_p)	0.2pF
Trigger Voltage (V_t)	150V typ.
Clamping Voltage ³ (V_c)	30V typ.
Response time	1ns max.
ESD Voltage Capability, Contact Discharge Mode(KV)	8KV typ.
ESD Voltage Capability, Air Discharge Mode(KV)	15KV typ.
Minimum ESD Pulse Withstand	100

Note:

1. Leakage current at maximum operating voltage.
2. Capacitance is measured with 1Vrms.
3. Per IEC 61000-4-2, 30A@8KV, level 4, clamp measurement made 30 ns after initiation of pulse, all test in contact discharge mode.

◆ General Technical Data

Operating Temperature	-40 ~+85°C
Storage Temperature	-55 ~ +125°C
Response Time	<1 ns
Solderability	245±5°C, 3±1sec.

◆ Environmental Performance

Item	Specifications	Test Condition
Bias Humidity	$I_L \leq 10 \mu A$	90%RH, 40°C, Rated Voltage, 1000 hrs
Thermal Shock		-40°C to 85°C, 30 min. cycle, 5 cycles
Full Load Voltage		Rated Voltage, 85°C, 1000 hrs
Solder Leach Resistance		260±5°C, 10±1 sec.

I_L – Leakage current at rated voltage, the maximum leakage current was measured after reliability test.

◆ Package

Size EIA (EIAJ)	1206 (3216)
Standard Packing Quantity (pcs / reel)	5,000