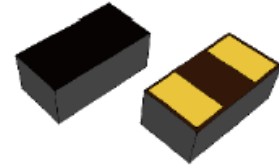




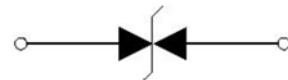
FEATURES

- ✧ Ultra-low capacitance (0.05pF typical).
- ✧ Low leakage current(<10nA).
- ✧ Fast response time (<1ns).
- ✧ Bi-directional, single line protection.

Polymeric ESD suppressor



0402



MAIN APPLICATIONS

- ✧ HDTV/Smart TV
- ✧ Set-Top box.
- ✧ Laptop/Desktop computer
- ✧ HDMI、USB 3.0
- ✧ USB 3.1、Lightning、Thunderbolt

ELECTRICAL PARAMETERS (T=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Working voltage	V_{DC}				18	V
Trigger voltage	V_T	IEC61000-4-2 8kV Contact discharge		450		V
clamping voltage	V_C	IEC61000-4-2 8kV Contact discharge		40		V
Leakage current	I_L	$V_{DC}=18V$			10	nA
Junction capacitance	C_J	f =10MHz		0.05		pF
ESD pulse withstand	Pulses	IEC61000-4-2 8kV Contact discharge	1000			

CHARACTERITICS CURVE

FIG.1: Typical ESD Response (IEC 61000-4-2, 8KV contact discharge)

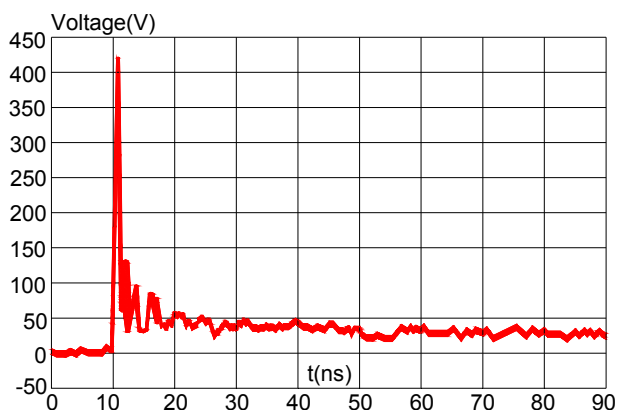
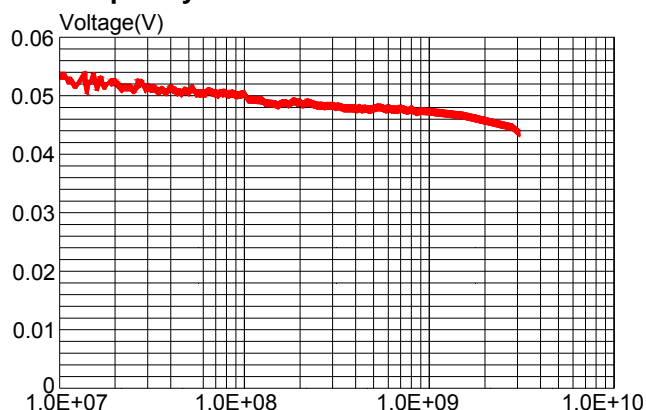
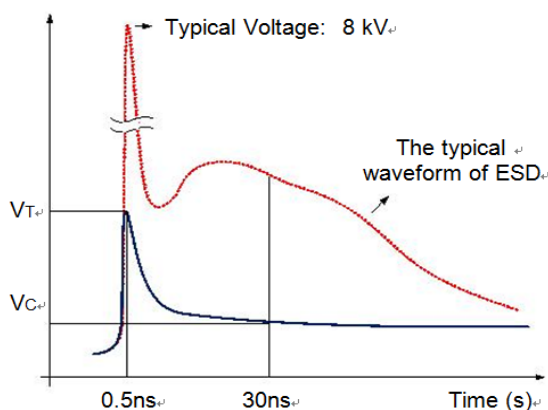


FIG.2: Typical Device Capacitance VS. Frequency



GENERAL CHARACTERISTICS



IEC61000-4-2 Standards

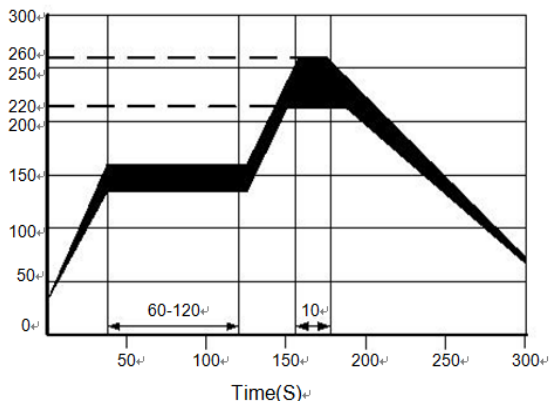
Level	First Peak Current (A)	Peak Current at 30 ns (A)	Peak Current at 60 ns (A)	Test Voltage (Contact Discharge) (kV)	Test Voltage (Air Discharge) (kV)
1	7.5	4	2	2	2
2	15	8	4	4	4
3	22.5	12	6	6	8
4	30	16	8	8	15

Operating temperature range	-50°C to +85°C
Storage temperature range	-50°C to +125°C
ESD Capability: IEC61000-4-2 Contact discharge IEC61000-4-2 Air discharge	8kV typical 15kV typical

ENVIRONMENTAL SPECIFICATIONS

	Test Conditions	Pass/Fail Criteria
Bias Humidity Test	85°C, 85% RH, V _{DC(max)} , 1000hrs	I _L % 10 μA
Thermal Shock	-55°C to 125°C, 30 min Dwell, 1000 Cycles	I _L % 10 μA
Bias Heat Test	125°C, V _{DC(max)} , 1000 hrs	I _L % 10 μA
Bias Low Temp Test	-55°C, V _{DC(max)} , 1000 hrs	I _L % 10 μA
Solderability	250°C±5°C, 3±1s	95% Coverage
Solder Heat	260°C, 10s	90% Coverage

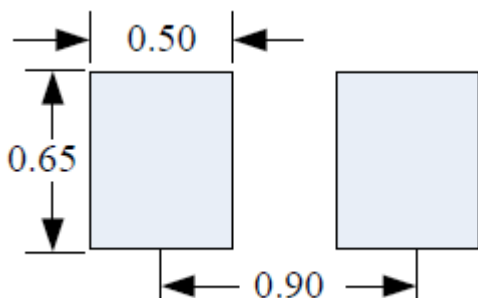
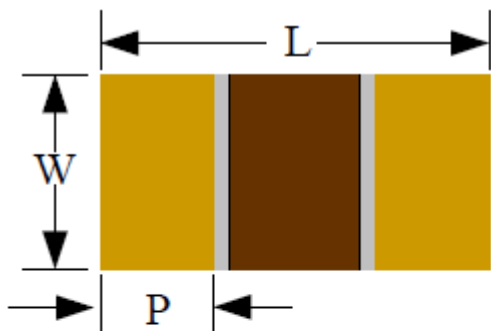
SOLDER REFLOW RECOMMENDATIONS



- Recommended reflow methods: IR, vapor phase oven, hot air oven.
- The device can be exposed to a maximum temperature of 260°C for 10 seconds.
- Devices can be cleaned using standard industry methods and solvents.

Notes: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

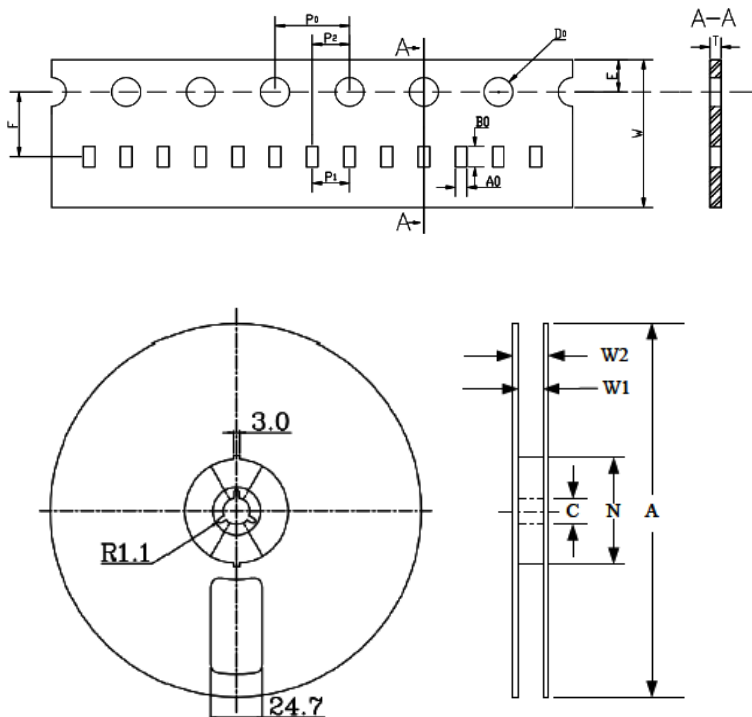
PRODUCT DIMENSIONS



Size in mm
Land pattern

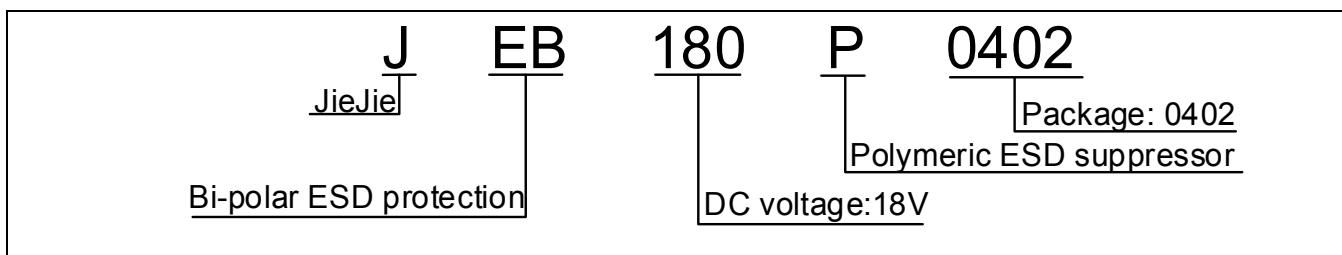
Symbol	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
L	0.90	1.00	1.10	0.035	0.039	0.043
W	0.42	0.52	0.62	0.017	0.020	0.024
P	0.15	0.25	0.35	0.006	0.010	0.014
H	0.25	0.38	0.45	0.010	0.015	0.018

TAPE AND REEL INFORMATION



Symbol	Millimeters	Inches
A0	0.68±0.03	0.027±0.001
B0	1.17±0.03	0.046±0.001
W	8.00±0.10	0.315±0.004
F	3.50±0.05	0.138±0.002
E	1.75±0.10	0.069±0.004
P1	2.00±0.05	0.079±0.002
P2	2.00±0.05	0.079±0.002
P0	4.00±0.10	0.157±0.004
ΦD0	1.55±0.05	0.061±0.002
T	0.43±0.03	0.017±0.001
A	178±2.0	7.008±0.079
N(min.)	50	1.969
C	13.0±0.2	0.512±0.008
W2(max.)	14.4	0.567
W1(min.)	8.4	0.331
W1(max.)	9.9	0.390

PART NUMBERING SYSTEM



ORDERING INFORMATION

PART No.	PACKAGE TYPE	QUANTITY(PCS) REEL	DESCRIPTION
JEB180P0402	0402	10,000	7 inch reel pack

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