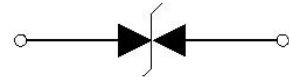
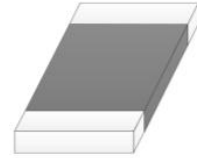




FEATURES

- ✧ Ideal ESD protection for high frequency, high speed applications.
- ✧ Ultra-low capacitance (0.2pF typical).
- ✧ Fast response time (<1ns, 0.5ns typical).
- ✧ Very low leakage current, reduces power consumption.
- ✧ Bi-directional device for placement flexibility.
- ✧ Surface mount design for board space savings.
- ✧ Compatible with standard reflow installation procedures.

Ceramic ESD Protector



MAIN APPLICATIONS

- ✧ High speed data ports, DVI, HDMI1.3/1.4, USB2.0/3.0, display port 1.0/1.1, e-SATA, IEEE1394.
- ✧ Antennas (cell phone, satellite radio, GPS...), blue tooth, LED lighting protection.
- ✧ Portable devices, cellular phone, PDA's, digital cameras, digital camcorders.
- ✧ High speed ethernet, DSL modems, computers & peripherals, printer ports.
- ✧ HDTV, set top boxes, DVD players, A/V equipment, multimedia players.

ELECTRICAL PARAMETERS (T=25°C)

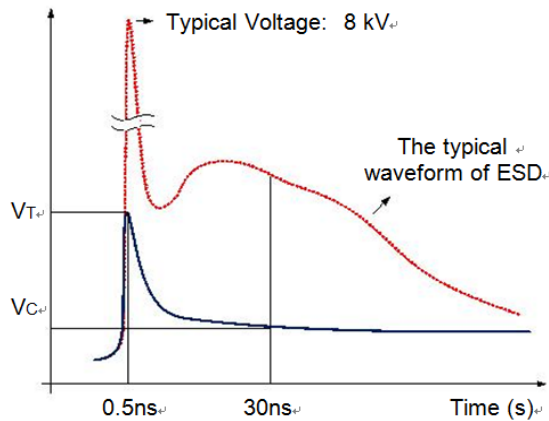
Part Number	Working voltage	Trigger voltage	Clamping voltage	Leakage current	Capacitance
	V_{DC}	V_T	V_C	I_L	C_P
	max(V)	typ(V)	typ(V)	max(μ A)	typ(pF)
JEB140RFB	14	200	30	0.1	0.2

*Trigger voltage measured per IEC61000-4-2 Level 4, 8KV.

*Capacitance measured at 1MHz.

*Leakage current measured at working voltage.

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

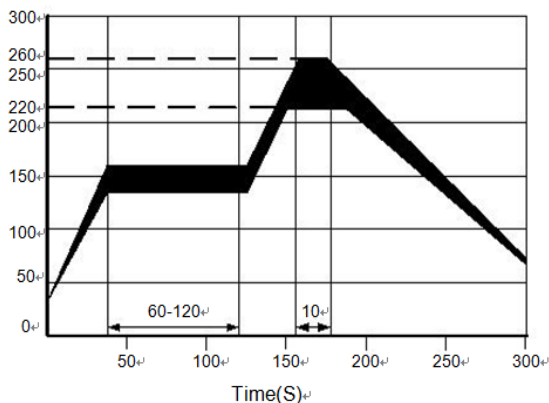
Operating temperature range	-50°C to +125°C
Storage temperature range	-50°C to +150°C
ESD Capability: IEC61000-4-2 Contact discharge IEC61000-4-2 Air discharge	8KV typical 15KV typical

ENVIRONMENTAL SPECIFICATIONS

- ✧ High temperature storage: 150°C, 1000 hours without load.
- ✧ Temperature cycle: The temperature cycle shall be repeated for five times, -40°C/ 30 min; room temperature/ 1~2 hours; 125°C/ 30 min; room temperature/ 1~2 hours.
- ✧ High temperature load: 85°C, 1000 hours with the maximum allowable voltage.
- ✧ Humidity load: 40°C, 90 to 95% RH environment, the maximum allowable voltage applied for 1000 hours.
- ✧ Low temperature storage: -40°C, 500 hours without load.

* After being test, all the specimen should be stored at room temperature 1~2 hours, the change of voltage shall be within 10%.

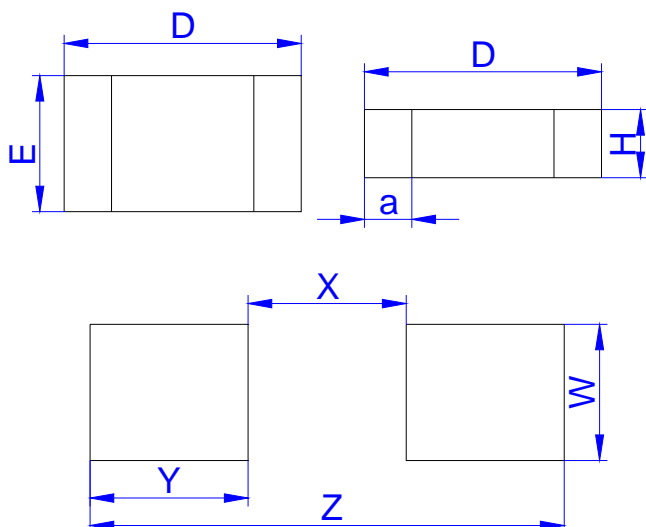
SOLDER REFLOW RECOMMENDATIONS



- 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.

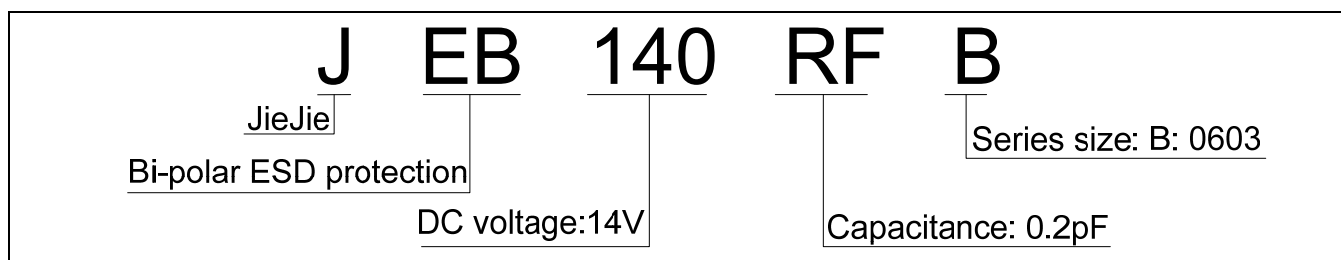
Notes: If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

PRODUCT DIMENSIONS



Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
D	1.45	1.75	0.057	0.069
E	0.7	0.9	0.028	0.035
H		0.9		0.035
a	0.2	0.4	0.008	0.016
W	0.7	1.0	0.028	0.039
X	0.9	1.2	0.035	0.047
Y	0.9	1.2	0.035	0.047
Z	2.7	3.2	0.106	0.126

PART NUMBERING SYSTEM



PACKAGE INFORMATION

Qty: 5kpcs/Reel

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