

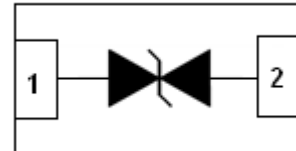


### FEATURES:

- ✧ Small body outline dimensions :0.6mm×0.3mm
- ✧ Low clamping voltage
- ✧ Low operating voltage: 5.0V
- ✧ Low capacitance:0.15pF(typ.)
- ✧ Low leakage current:0.01μA(typ.)
- ✧ ROHS compliant



DFN0603-2L



PIN Configuration

### MAIN APPLICATIONS

- ✧ Cell phone handsets and accessories
- ✧ Personal digital assistants (PDA's)
- ✧ Notebooks, desktops, and servers
- ✧ Portable instrumentation
- ✧ Communication systems
- ✧ Microprocessor based equipment

### PROTECTION SOLUTION TO MEET

- ✧ IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ✧ IEC61000-4-4 (EFT) 40A (5/50ns)
- ✧ IEC61000-4-5(Lightning) 4A (8/20μs)

### MECHANICAL CHARACTERISTICS

- ✧ DFN0603-2L package
- ✧ Molding compound flammability rating : UL 94V-0
- ✧ Quantity per reel : 15,000pcs
- ✧ Lead finish : lead free
- ✧ Marking code: C

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C, RH=45%-75%, unless otherwise noted)

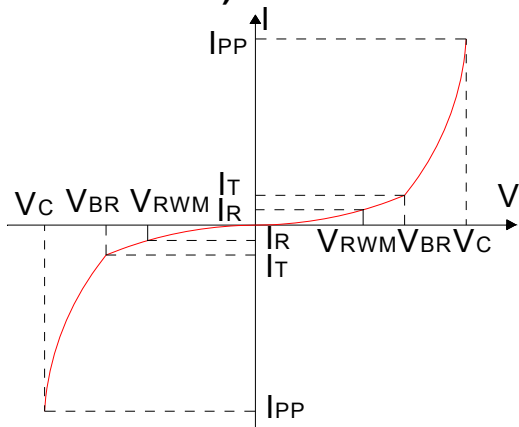
Parameter	Symbol	Value	Unit
Peak pulse power current on 8/20 μs waveform	I <sub>PP</sub>	4	A
ESD per IEC 61000-4-2 (Air)	V <sub>ESD</sub>	+/-15	kV
ESD per IEC 61000-4-2 (Contact)		+/-8	
Lead soldering temperature	T <sub>L</sub>	260 (10 sec.)	°C
Operating junction temperature range	T <sub>J</sub>	-40 to +125	°C
Storage temperature range	T <sub>STG</sub>	-55 to +150	°C

**ELECTRICAL CHARACTERISTICS** ( $T_A=25^{\circ}\text{C}$ )

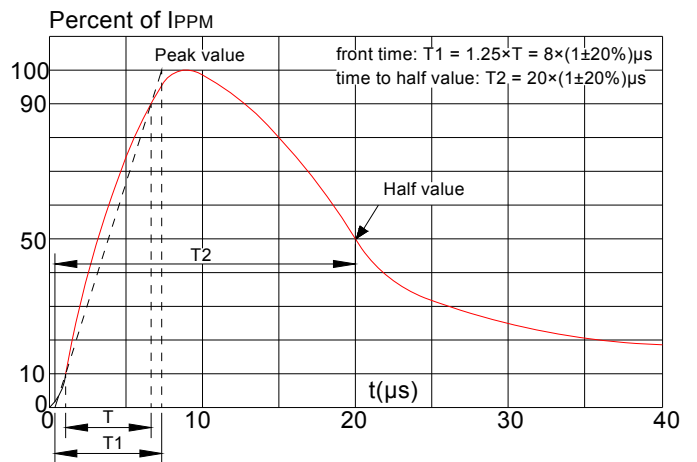
Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	$V_{RWM}$				5.0	V
Reverse breakdown voltage	$V_{BR}$	$I_T=5\text{mA}$	5.5			V
Reverse leakage current	$I_R$	$V_{RWM} = 5\text{V}$		0.01	1.0	$\mu\text{A}$
Peak pulse current	$I_{PP}$	$t_p=8/20\mu\text{s}$			4	A
Clamping voltage	$V_C$	$I_{PP} = 4\text{A}, t_p = 8/20\mu\text{s}$		14	17	V
Junction capacitance	$C_J$	$V_{RWM} = 0\text{V}, f = 1\text{MHz}$		0.15	0.20	pF

**RATINGS AND V-I CHARACTERISTICS CURVES** ( $T_A=25^{\circ}\text{C}$ , unless otherwise noted)

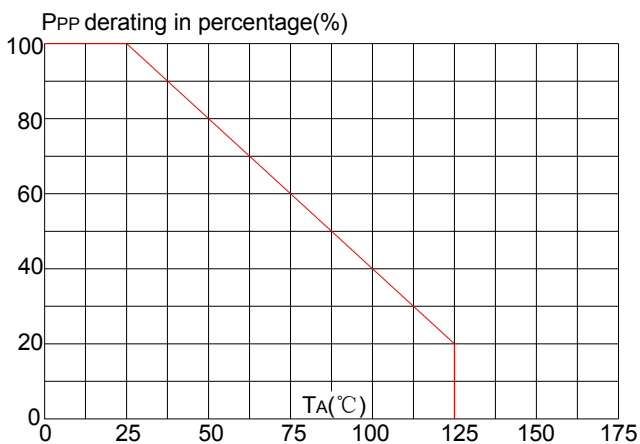
**FIG.1:V- I curve characteristics (Bi-directional)**



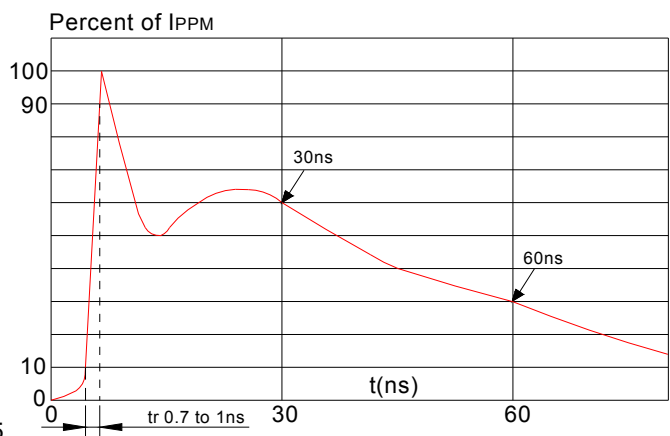
**FIG.2: Pulse waveform (8/20 $\mu\text{s}$ )**



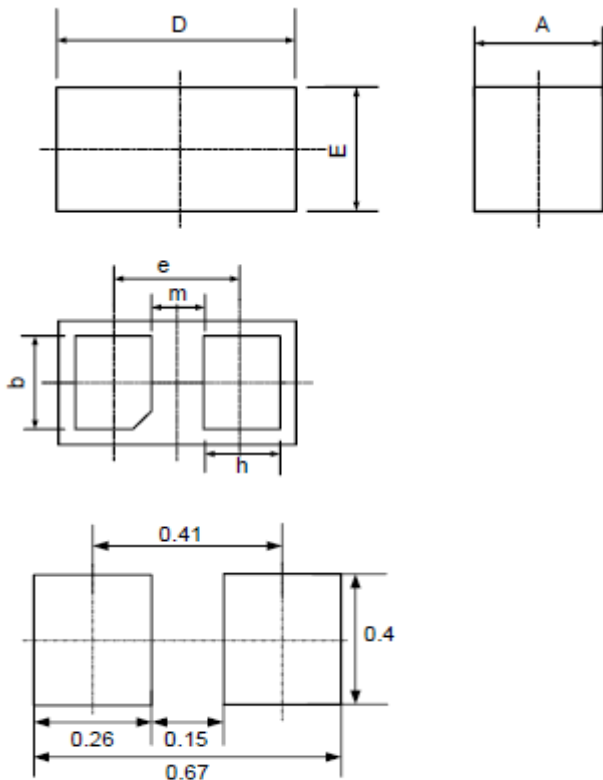
**FIG.3: Pulse derating curve**



**FIG.4: ESD clamping (8KV contact)**



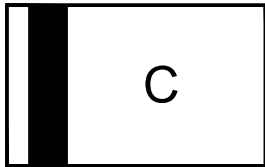
**PACKAGE MECHANICAL DATA**



Land Pattern

Symbol	Millimeter	
	Min.	Max.
A	0.28	0.32
D	0.55	0.65
E	0.25	0.35
b	0.20	0.30
e	0.350	
m	0.165	
h	0.14	0.24

**MARKING CODE**

Part Number	Marking Code
JEB05ULCDS-A	<p>PIN 1</p> 

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