



## FEATURES

- Solid-state silicon technology
- Low clamping voltage
- Ultra-low leakage current
- Ultra low capacitance
- RoHS compliant

## MAIN APPLICATIONS

- USB 2.0& USB 3.0
- HDMI 1.3.HDMI 1.4 and HDMI 2.0
- SATA and eSATA interface
- DVI
- IEEE 1394
- Portable electronics and notebooks

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

Parameter	Symbol	Value	Unit
Peak pulse power dissipation on 8/20μs waveform	P <sub>PP</sub>	44	W
ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	V <sub>ESD</sub>	+/-15 +/-15	kV
Lead soldering temperature	T <sub>L</sub>	260 (10 sec.)	
Operating junction temperature range	T <sub>J</sub>	-55 to +125	
Storage temperature range	T <sub>STG</sub>	-55 to +150	

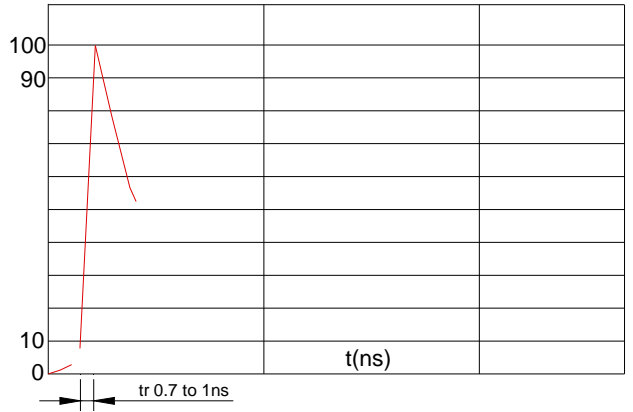
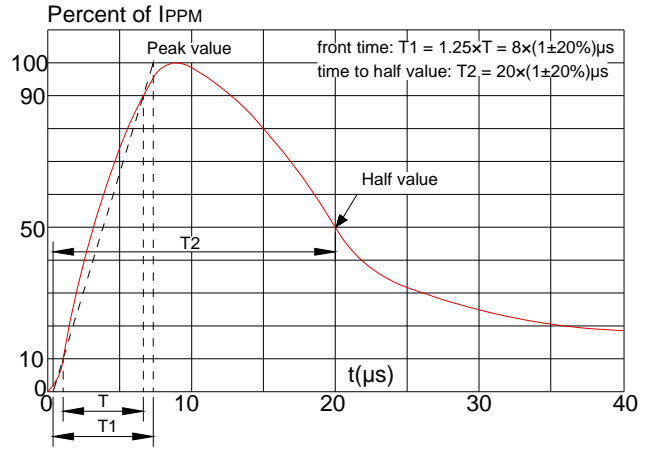
**ELECTRICAL CHARACTERISTICS** (T<sub>A</sub>=25°C)

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Reverse working voltage	V <sub>RWM</sub>				5.0	V
Breakdown voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	6.0	8.0		V
Reverse leakage current	I <sub>R</sub>	V <sub>RWM</sub> =5V		1	50	nA
Peak pulse current	I <sub>PP</sub>	t <sub>P</sub> =8/20μs			4	A
Clamping voltage	V <sub>C</sub>	I <sub>PP</sub> =16A, t <sub>P</sub> =100ns		14		V
Clamping voltage	V <sub>C</sub>	V <sub>ESD</sub> =8kV		14		V
Clamping voltage	V <sub>C</sub> <sup>e</sup>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs		8.3	10	V

RATINGS AND CHARACTERISTIC CURVES (TA=25°C, unless otherwise noted)

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

FIG.2: Pulse waveform (8/20µs)

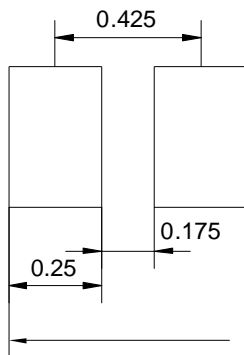
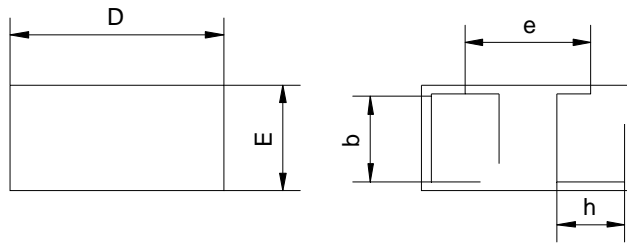


## SOLDERING PARAMETERS

Reflow Condition

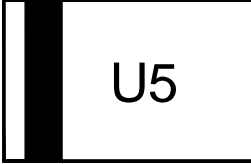
Pb-Free assembly  
(see figure at right)

PACKAGE MECHANICAL DATA





MARKING CODE

Part Number	Marking Code
JEB05VCDS-A	PIN 1 

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