

Maximum Ratings (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Power Dissipation	Ррр	70	W	8/20µs (Note 5)
Peak Pulse Current	Ipp	7.5	А	8/20µs (Note 5)
ESD Protection – Contact Discharge	V _{ESD_Contact}	±15	kV	Standard IEC 61000-4-2
ESD Protection – Air Discharge	V _{ESD} Air	±15	kV	Standard IEC 61000-4-2

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Thermal Resistance, Junction to Ambient Typical (Note 5)	R _{0JA}	+206	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	O°

Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Breakdown Voltage	Vbr	6		9	V	I _R = 1mA
Reverse Leakage Current (Note 6)	I _R	-	-	70	nA	V _R =3V
Dynamic Impedance	Rd	-	0.35	-	Ω	IPP = 1 to 5A, 8/20µs
Channel Input Capacitance	CIN	-	0.8	1.2	pF	$VIN = 0V, f = 1MHz, V_{OSC} = 30mV$

5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes, Inc. suggested pad layout AP02001, which can be found on our website at http://www.diodes.com.

6. Short duration pulse test used to minimize self-heating effect.

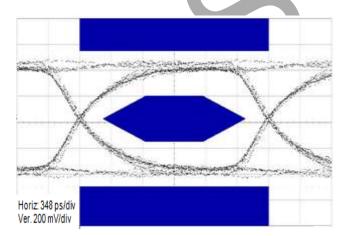


Figure 1. Eye diagram, board only (according to USB2.0 high speed specification)

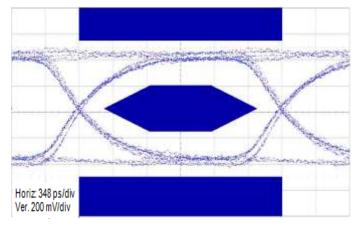


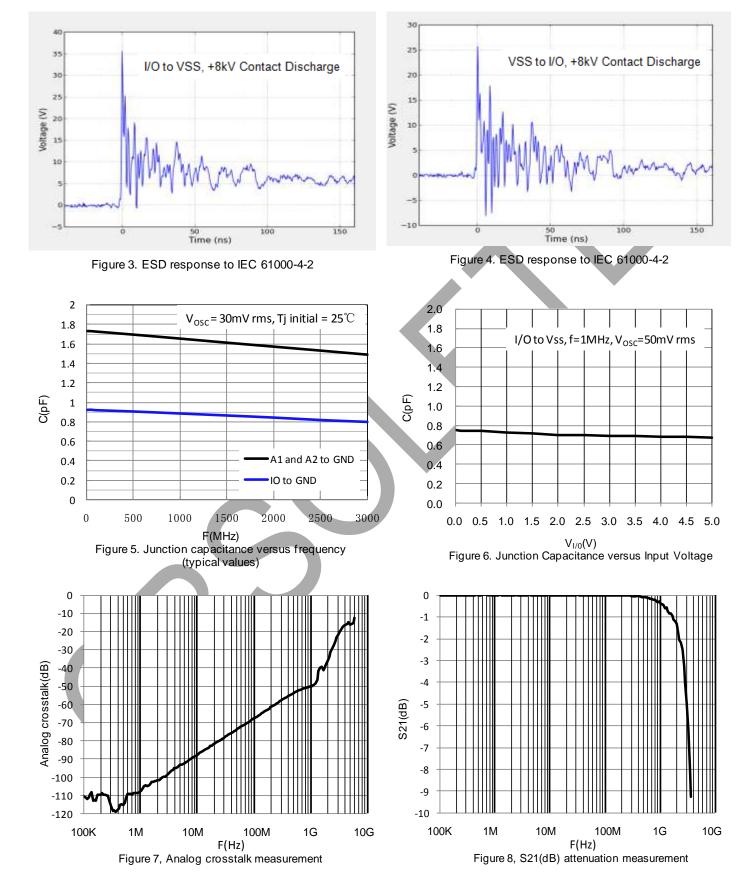
Figure 2. Eye diagram, board with DUSBULC6-CSP4 (according to USB2.0 high speed specification)

Notes:



PART OBSOLETE - NO ALTERNATE PART

DUSBULC6-CSP4

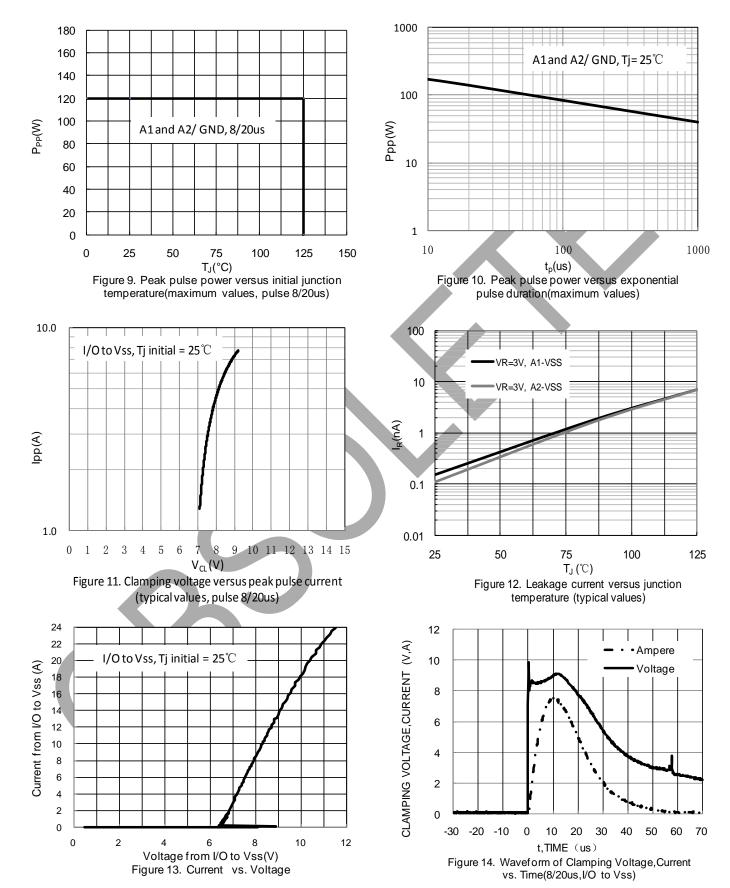


OBSOLETE – PART DISCONTINUED

PART OBSOLETE – NO ALTERNATE PART



DUSBULC6-CSP4

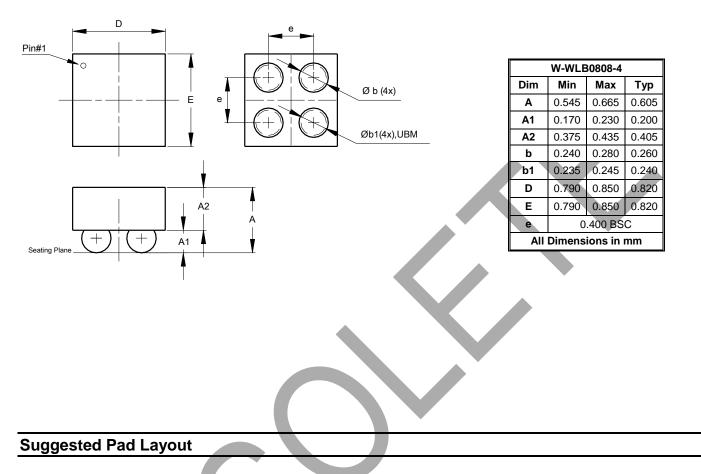


DUSBULC6-CSP4 Document number: DS37554 Rev. 4 – 4

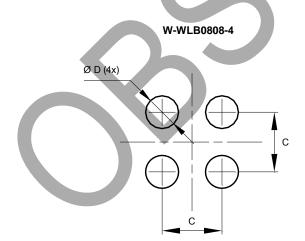


Package Outline Dimensions

Please see AP02002 at http://www.diodes.com/datasheets/ap02002.pdf for the latest version.



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Dimensions	Value (in mm)		
С	0.400		
D	0.220		

OBSOLETE – PART DISCONTINUED



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