

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

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Current	lpp	1.5	Α	8/20µs, Per Figure 3
ESD Protection – Contact Discharge	V _{ESD} Contact	±15	kV	Standard IEC 61000-4-2
ESD Protection – Air Discharge	V _{ESD Air}	±20	kV	Standard IEC 61000-4-2

Thermal Characteristics

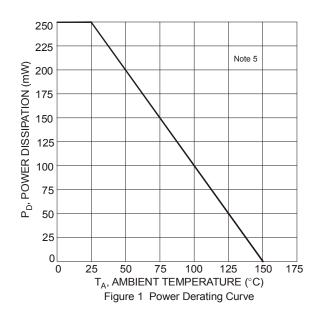
Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	P_{D}	250	mW
Thermal Resistance, Junction to Ambient (Note 5)	$R_{ hetaJA}$	500	°C/W
Operating and Storage Temperature Range	T_{J}, T_{STG}	-65 to +150	°C

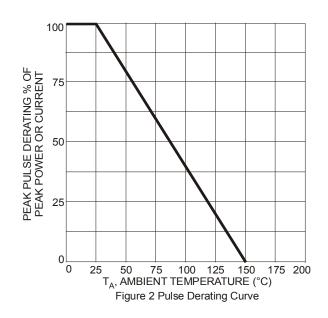
Electrical Characteristics (@T_A = +25°C unless otherwise specified)

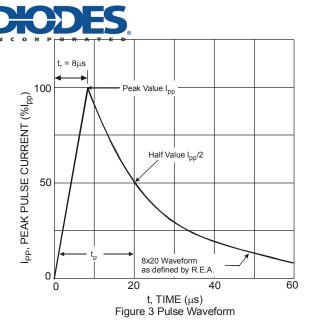
Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Working Voltage	V_{RWM}	_	_	5.5	V	_
Reverse Current (Note 6)	I _R	_	_	100	nA	V _R = 5.0V
Reverse Breakdown Voltage	V_{BR}	6.0	_	_	V	I _R = 1mA
Reverse Clamping Voltage, Positive Transients (Note 7)	V _{CL}	_	10	12	V	$I_{PP} = 1A, t_p = 8/20 \mu s$
Dynamic Resistance	R _{DYN}	_	0.9	_	Ω	I _R = 1A, t _p = 8/20μs
Capacitance (Note 8)	C _T	_	0.4	0.65	pF	V _R = 2.5V, f = 1MHz
		_	0.5		pF	V _R = 0V, f = 1MHz

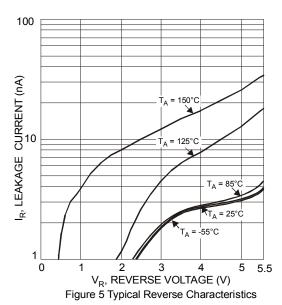
Notes:

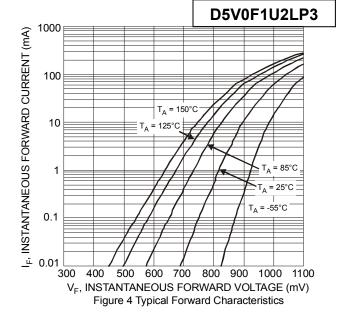
- 5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes, Inc. suggested pad layout AP02001, which can be found on our website at http://www.diodes.com.
- 6. Short duration pulse test used to minimize self-heating effect.
- 7. Clamping voltage value is based on an $8x20\mu s$ peak pulse current (I_{pp}) waveform.
- 8. Measured from any I/O to GND.
- For information on the impact of Diodes' USB 2.0 compatible ESD protectors on signal integrity including eye diagram plots, please refer to AN77 at the following URL: http://www.diodes.com/destools/appnote_dnote.html.

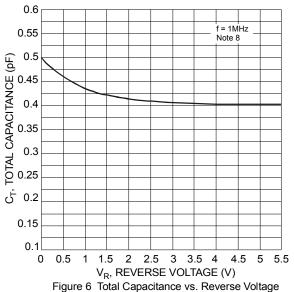






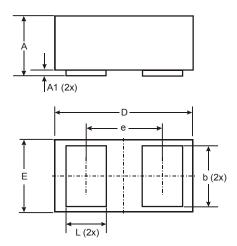






Package Outline Dimensions

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

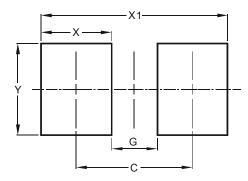


X3-DFN0603-2					
Dim	Min	Max	Тур		
Α	0.27	0.35	0.30		
A1	0.00	0.03	0.02		
b	0.19	0.29	0.24		
D	0.595	0.645	0.62		
E	0.295	0.345	0.32		
е	-	-	0.355		
L	0.14	0.24	0.19		
All Dimensions in mm					



Suggested Pad Layout

Please see AP02001 at http://www.diodes.com/datasheets/ap02001.pdf for the latest version.



Dimensions	Value (in mm)
С	0.355
G	0.150
Х	0.230
X1	0.610
Υ	0.300

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