

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

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Current	IPP	5	А	8/20µs, Per Figure 3
ESD Protection – Contact Discharge	V _{ESD_Contact}	±8	kV	Standard IEC 61000-4-2
ESD Protection – Air Discharge	$V_{ESD_{Air}}$	±15	kV	Standard IEC 61000-4-2

Thermal Characteristics

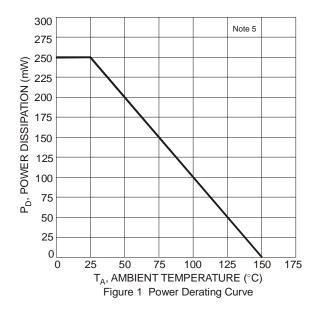
Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	PD	250	mW
Thermal Resistance, Junction to Ambient (Note 5)	$R_{ heta JA}$	500	°C/W
Operating and Storage Temperature Range	TJ, T _{STG}	-65 to +150	°C

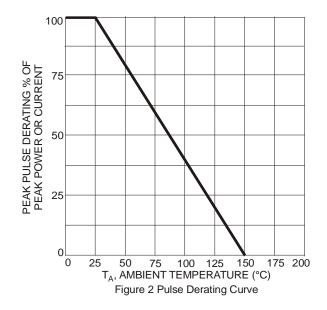
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse working voltage	VRWM	_	—	3.3	V	_
Reverse current (Note 6)	I _R	_	0.1	1.0	μA	$V_R = V_{RWM} = 3.3V$
Reverse breakdown voltage	VBR	6.0	_	_	V	I _R = 1mA
Forward voltage	VF	0.6	0.8	0.95	V	I _F = 8mA
Reverse clamping voltage, Positive Transients	V _{CL1}	_	10.0	—	V	$I_{PP} = 1A, t_p = 8/20\mu s$
Reverse clamping voltage, Negative Transients	V _{CL2}	_	-1.7	—	V	$I_{PP} = -1A, t_p = 8/20 \mu s$
Dynamic resistance	R _{DYN}	_	0.9	—	Ω	$I_R = 1A, t_p = 8/20 \mu s$
Capacitance	Ст		0.85	1.2	pF	V _R = 1.65V, f = 1MHz

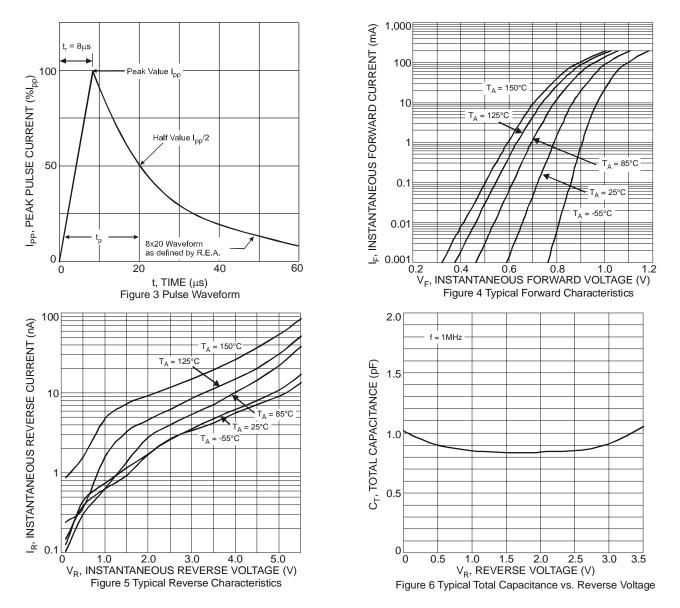
5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes, Inc. suggested pad layout AP02001, which can be found on our website at Notes: http://www.diodes.com.

 6. Short duration pulse test used to minimize self-heating effect.
7. 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.



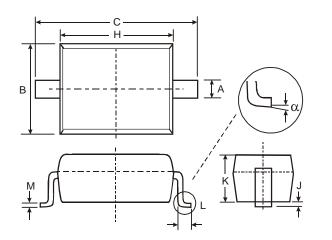






Package Outline Dimensions

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

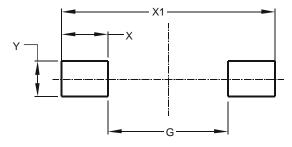


SOD323			
Dim	Min	Max	
Α	0.25	0.35	
В	1.20	1.40	
С	2.30	2.70	
н	1.60	1.80	
J	0.00	0.10	
K	1.0	1.1	
L	0.20	0.40	
М	0.10	0.15	
α	0°	8°	
All Dimensions in mm			



Suggested Pad Layout

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



Dimensions	Value (in mm)
G	1.520
Х	0.590
X1	2.700
Y	0.450

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