

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Power Dissipation	P _{PP}	375	W	8/20µs, per Figure 3
Peak Pulse Current	I _{PP}	30	Α	8/20µs, per Figure 3
ESD Protection – Contact Discharge	V _{ESD_CONTACT}	±30	kV	IEC 61000-4-2 Standard
ESD Protection – Air Discharge	V _{ESD_AIR}	±30	kV	IEC 61000-4-2 Standard

Thermal Characteristics

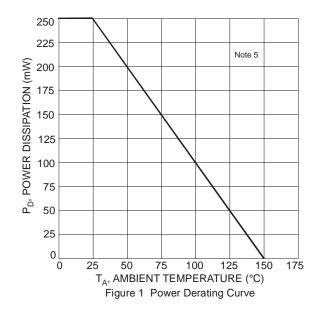
Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	P_{D}	250	mW
Thermal Resistance, Junction to Ambient (Note 5)	$R_{ heta JA}$	500	°C/W
Operating and Storage Temperature Range	T_J , T_{STG}	-65 to +150	°C

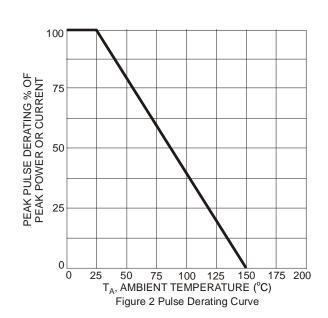
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Working Voltage	V_{RWM}	_	_	6.3	V	_
Reverse Current (Note 6)	I _R	_	0.1	1.0	μА	$V_R = V_{RWM} = 6.3V$
Reverse Breakdown Voltage	V_{BR}	6.5	_	9	V	I _R = 1mA
Poverse Clemping Veltage	V _{CL}	_	9.0	11.0	V	$I_{PP} = 20A$, $t_p = 8/20\mu s$
Reverse Clamping Voltage		_	11	12.5		$I_{PP} = 30A$, $t_p = 8/20\mu s$
Capacitance	Ст		200	_	pF	$V_R = 0V$, $f = 1MHz$

Notes:

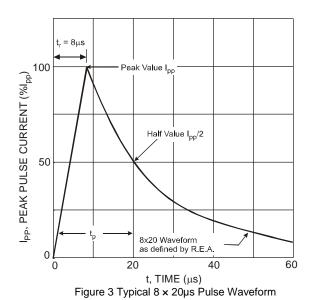
^{6.} Short duration pulse test used to minimize self-heating effect.

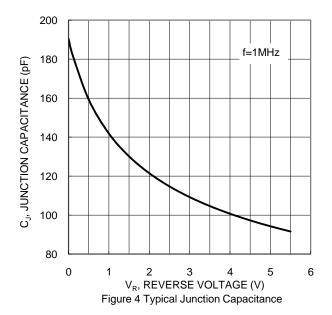




^{5.} Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes Incorporated's suggested pad layout, which can be found on our website at http://www.diodes.com/package-outlines.html.

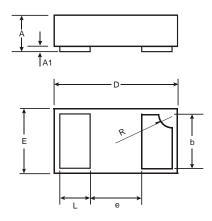






Package Outline Dimensions

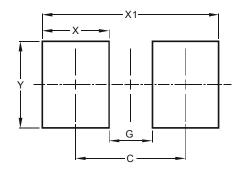
Please see http://www.diodes.com/package-outlines.html for the latest version.



X1-DFN1006-2					
Dim	Min	Max	Тур		
Α	0.47	0.53	0.50		
A1	0	0.05	0.03		
b	0.45	0.55	0.50		
D	0.95	1.075	1.00		
Е	0.55	0.675	0.60		
е	-	-	0.40		
L	0.20	0.30	0.25		
R	0.05	0.15	0.10		
All Dimensions in mm					

Suggested Pad Layout

Please see http://www.diodes.com/package-outlines.html for the latest version.



Dimensions	Value (in mm)
С	0.70
G	0.30
Х	0.40
X1	1.10
Υ	0.70



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