

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

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Current	IPP	3	А	8/20µs, per Figure 1
ESD Protection – Contact Discharge	Vesd_contact	±15	kV	IEC 61000-4-2 Standard
ESD Protection – Air Discharge	Vesd_air	±17	kV	IEC 61000-4-2 Standard

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Package Power Dissipation (Note 5)	PD	250	mW
Thermal Resistance, Junction to Ambient (Note 5)	R _{θJA}	500	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

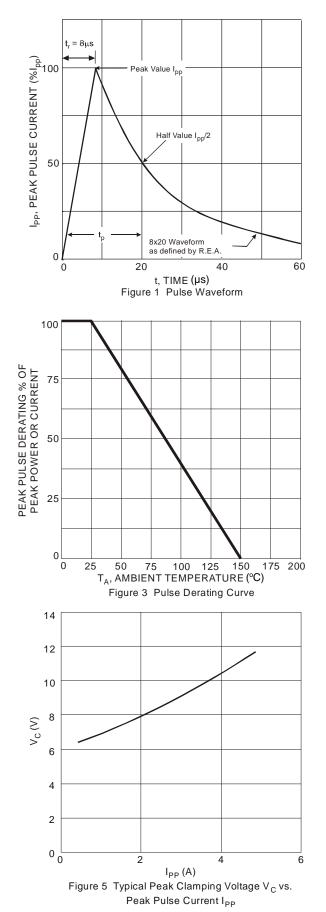
Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

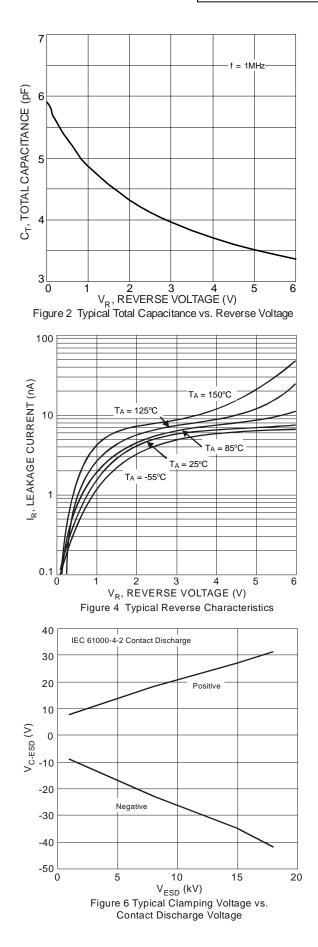
Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Standoff Voltage	V _{RWM}	_	_	5.5	V	—
Channel Leakage Current (Note 6)	I _{RM}	—	10	100	nA	V _{RWM} = 5V
	Vcl	—	7.0	9.0	V	IPP = 1A, tP = 8/20µs, Figure 1
Clamping Voltage, Positive Transients		V _{CL} — 9.0 11.0	v	IPP = 3A, tP = 8/20µs, Figure 1		
Breakdown Voltage	VBR	6	7	8	V	I _R = 1mA
Channel Input Capacitance	Ст	—	6	8	pF	$V_R = 0V, f = 1MHz$

Notes: 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.

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



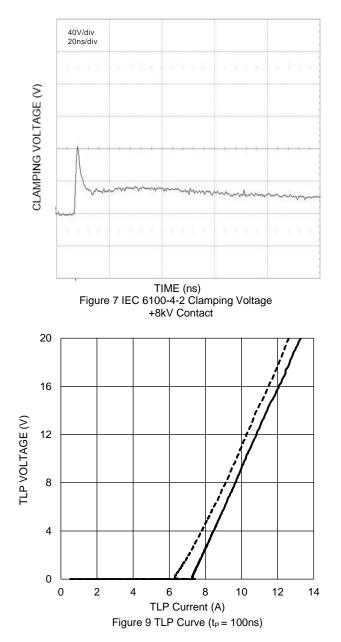


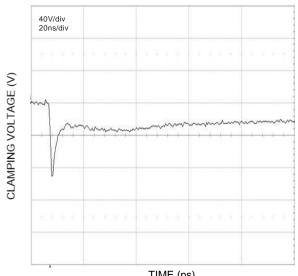


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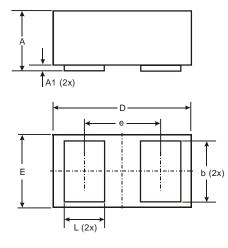
TIME (ns) Figure 8 IEC 6100-4-2 Clamping Voltage -8kV Contact



Package Outline Dimensions

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

X3-DFN0603-2

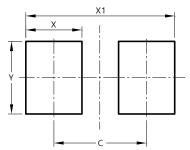


X3-DFN0603-2					
Dim	Min	Max	Тур		
Α	0.27	0.35	0.30		
A1	0.00	0.03	0.02		
b	0.19	0.29	0.24		
D	0.595	0.645	0.62		
Е	0.295	0.345	0.32		
е	-	-	0.355		
L	0.14	0.24	0.19		
All Dimensions in mm					

Suggested Pad Layout

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





Dimensions	Value (in mm)
С	0.380
Х	0.230
X1	0.610
Y	0.300



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