

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

Characteristic	Symbol	Value	Unit
Forward Voltage @ I _F = 10mA	V _F	1.25	V

Thermal Characteristics

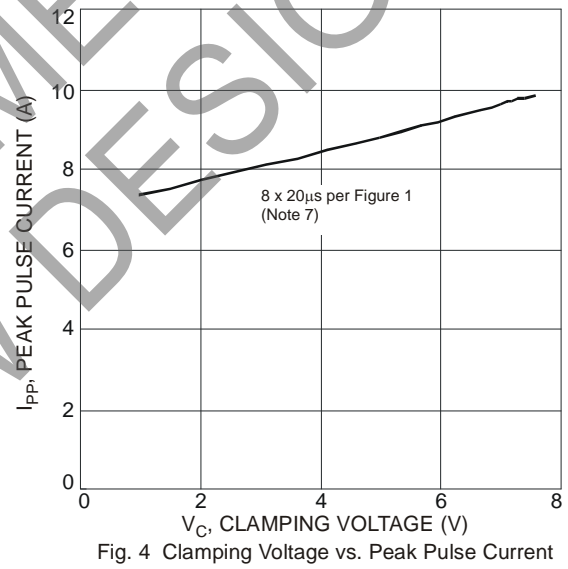
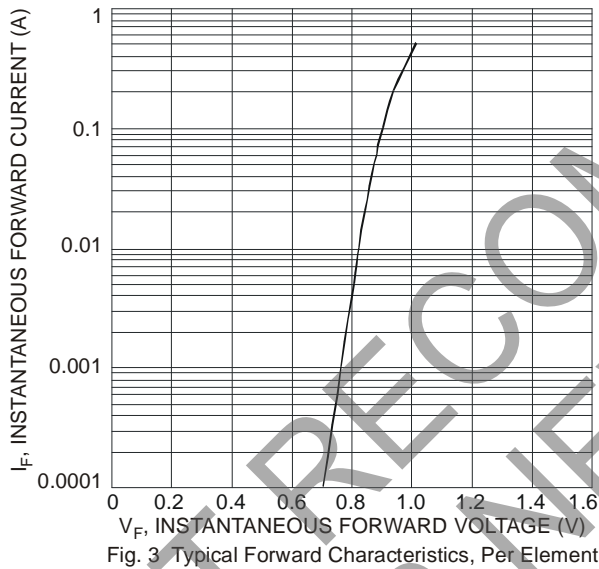
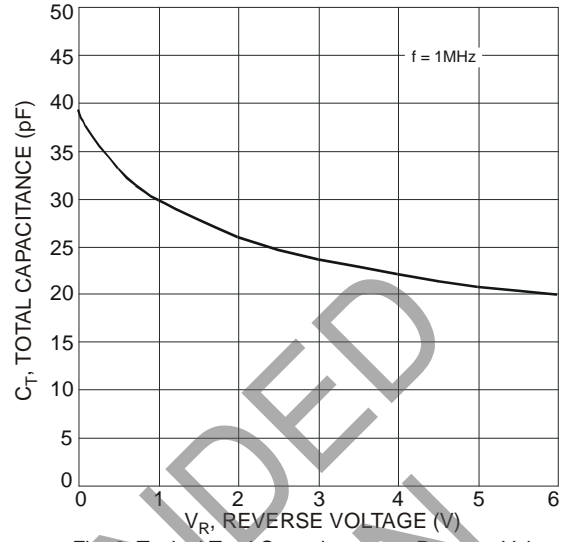
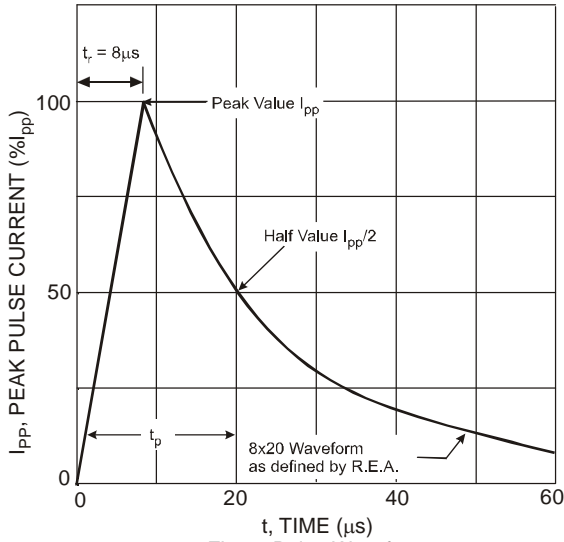
Characteristic	Symbol	Value	Unit
Peak Pulse Power (t _P = 8x20μs) (Note 5) T _A = +25°C	P _{pk}	70	W
Power Dissipation (Note 5)	P _D	385	mW
Thermal Resistance Junction to Ambient (Note 5) T _A = +25°C	R _{θJA}	325	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

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

Reverse Standoff Voltage	Breakdown Voltage V _{BR} @ I _T			Test Current I _T (mA)	Maximum Reverse Leakage @ V _{RWM} (Note 6) I _R (μA)	Maximum Dynamic Impedance f = 1kHz Z _{ZT} @ I _T (Ω) Z _{ZK} @ I _{ZK} (Ω) I _{ZK} (mA)			Typical Total Capacitance C _T V _R = 0V, f = 1MHz (pF)
	Min (V)	Typ (V)	Max (V)			Z _{ZT} @ I _T (Ω)	Z _{ZK} @ I _{ZK} (Ω)	I _{ZK} (mA)	
V _{RWM} (V)	6.4	6.8	7.2	5.0	1.0	30	300	0.5	40

Notes:

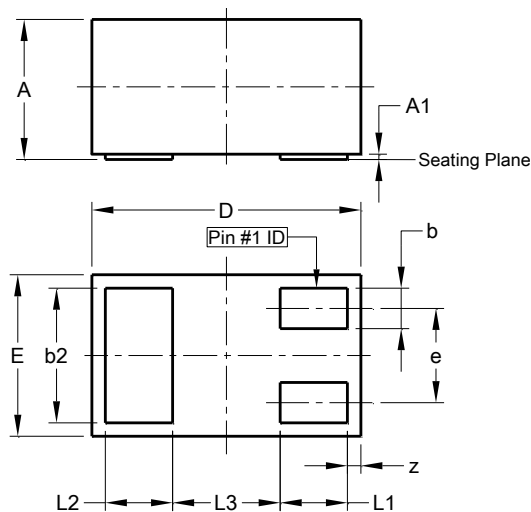
- Device mounted on FR-5 PC board of size 1.0 × 0.75 × 0.62 inches.
- Short duration pulse test used to minimize self-heating effect.
- Clamping voltage value is based on an 8 × 20μs peak-pulse current (I_{PP}) waveform.



Package Outline Dimensions

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

X1-DFN1006-3

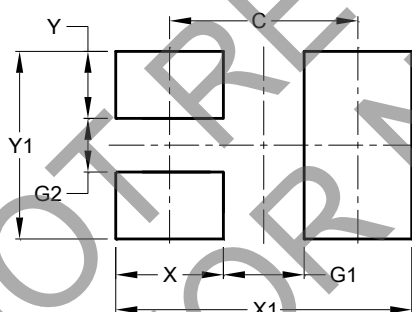


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Dim	Min	Max	Typ
A	0.47	0.53	0.50
A1	0.00	0.05	0.03
b	0.10	0.20	0.15
b2	0.45	0.55	0.50
D	0.95	1.075	1.00
E	0.55	0.675	0.60
e	-	-	0.35
L1	0.20	0.30	0.25
L2	0.20	0.30	0.25
L3	-	-	0.40
z	0.02	0.08	0.05
All Dimensions in mm			

Suggested Pad Layout

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

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Dimensions	Value (in mm)
C	0.70
G1	0.30
G2	0.20
X	0.40
X1	1.10
Y	0.25
Y1	0.70

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