

Thermal Characteristics

Characteristic		Symbol	Value	Unit
Power Dissipation (Note 5)	T _A = +25°C	P_D	250	mW
Thermal Resistance, Junction to Ambient Air (Note 5)	T _A = +25°C	$R_{\Theta JA}$	500	°C/W
Operating and Storage Temperature Range		$T_{J_i} T_{STG}$	-55 to +150	°C

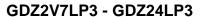
Electrical Characteristics (@T_A = +25°C, unless otherwise specified.)

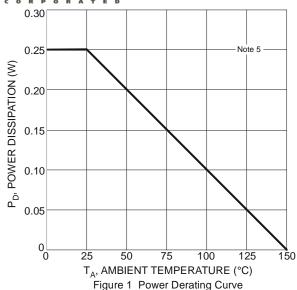
Type Marking		Zener Voltage Range (Note 6)			Reverse Current (Note 6)			
Number	Code	Vz @ Izt		I _{ZT}	I _R		@ V _R	
		Nom (V)	Min (V)	Max (V)	mA	Typical (µA)	Max (µA)	V
GDZ2V7LP3	JB	2.7	2.57	2.84	5	_	20	1.0
GDZ3V0LP3	JC	3.0	2.85	3.15	5	_	10	1.0
GDZ3V3LP3	JD	3.3	3.14	3.47	5	_	10	1.0
GDZ3V6LP3	KU	3.6	3.41	3.79	5	_	10	1.0
GDZ3V9LP3	KJ	3.9	3.740	4.160	5	_	5	1.0
GDZ4V1LP3	KY	4.1	3.93	4.37	5	_	5.0	1.0
GDZ4V3LP3	KK	4.3	4.08	4.53	5	_	5.0	1.0
GDZ4V7LP3	KL	4.7	4.420	4.900	5	_	2.0	1.0
GDZ5V1LP3	KM	5.1	4.840	5.370	5	_	0.2	2.0
GDZ5V6LP3	KN	5.6	5.310	5.920	5	90	1.0 175	2.5 4.75
GDZ6V0LP3	KW	6.0	5.676	6.324	5	_	1.0	2.8
GDZ6V2LP3	KO	6.2	5.860	6.530	5	_	1.0	3.0
GDZ6V8LP3	KT	6.8	6.470	7.140	5	_	0.5	3.5
GDZ7V5LP3	KQ	7.5	7.060	7.840	5	_	0.5	4.0
GDZ8V2LP3	KX	8.2	7.760	8.640	5	_	0.5	5.0
GDZ9V1LP3	JE	9.1	8.65	9.56	5	_	0.5	6.0
GDZ10LP3	JF	10	9.50	10.50	5	_	0.2	7.0
GDZ11LP3	JG	11	10.45	11.55	5	_	0.1	8.0
GDZ12LP3	JH	12	11.40	12.60	5	_	0.1	8.0
GDZ13LP3	JI	13	12.35	13.65	5	_	0.1	8.0
GDZ15LP3	JJ	15	14.25	15.75	5	_	0.1	10.5
GDZ16LP3	JK	16	15.20	16.80	5	_	0.1	11.2
GDZ18LP3	JL	18	17.10	18.90	5		0.1	12.6
GDZ20LP3	JM	20	19.00	21.00	5	_	0.1	14.0
GDZ22LP3	JN	22	20.90	23.10	5	_	0.1	15.4
GDZ24LP3	JO	24	22.80	25.20	5		0.1	16.8

Notes:

^{5.} Device mounted on FR-4 PCB with minimum recommended pad layout, as shown in Diodes Incorporated's Suggested Pad Layout document, which can be found on our website at http://www.diodes.com.

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





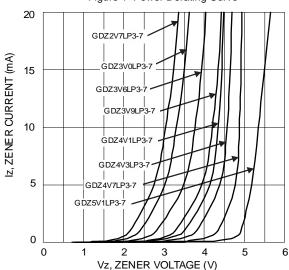
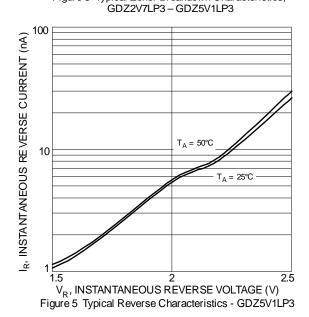
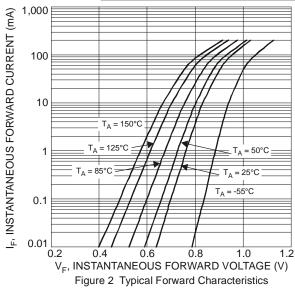
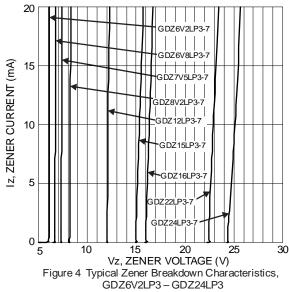


Figure 3 Typical Zener Breakdown Characteristics,







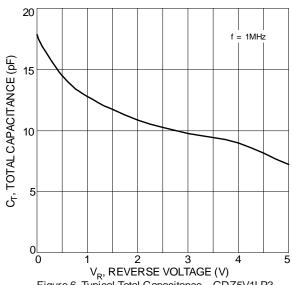
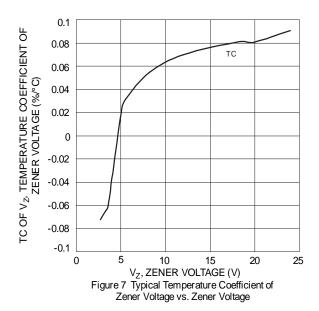


Figure 6 Typical Total Capacitance – GDZ5V1LP3

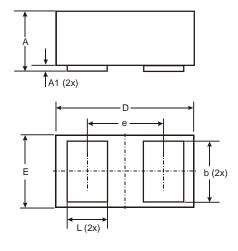




Package Outline Dimensions

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

X3-DFN0603-2

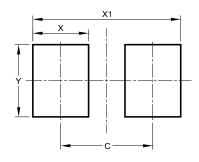


X3-DFN0603-2					
Dim	Min	Max	Тур		
Α	0.27	0.35	0.30		
A1	0.00	0.03	0.02		
b	0.19	0.29	0.24		
D	0.595	0.645	0.62		
Е	0.295	0.345	0.32		
е	-	-	0.355		
L	0.14	0.24	0.19		
All Dimensions in mm					

Suggested Pad Layout

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

X3-DFN0603-2



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



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