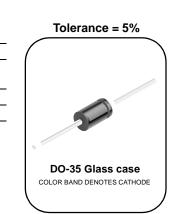
FAIRCHILD	
SEMICONDUCTOR®	

Zeners 1N957B - 1N991B

Absolute Maximum Ratings * $T_A = 25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Value	Units						
PD	Power Dissipation	500	mW						
	@ TL \leq 75°C, Lead Length = 3/8"								
	Derate above 75°C	4.0	mW/°C						
T _J , T _{STG} Operating and Storage Temperature Range -65 to +200 °C									
* Those ratings are limiting values above which the serviceability of the diade may be impaired									

These ratings are limiting values above which the serviceability of the diode may be impaired.



Electrical Characteristics T_A=25°C unless otherwise noted

	V _Z (Volts) (Note 1)			Ζ_Ζ (Ω) (Note 2)			I _R @ V _R				
Device	Min.	Tun	Max.	@ I _Z	Z _Z @ I _Z	7 @			μ Α	Volts	I _{ZM} (mA) (Note 3)
	with.	Тур.	WidX.	(mA)		Ω	mA	μΑ	VOILS	(14010-0)	
1N957B	6.46	6.8	7.14	18.5	4.5	700	1.0	150	5.2	47	
1N958B	7.125	7.5	7.875	16.5	5.5	700	0.5	75	5.7	42	
1N959B	7.79	8.2	8.61	15	6.5	700	0.5	50	6.2	38	
1N960B	8.645	9.1	9.555	14	7.5	700	0.5	25	6.9	35	
1N961B	9.5	10	10.5	12.5	8.5	700	0.25	10	7.6	32	
1N962B	10.45	11	11.55	11.5	9.5	700	0.25	5	8.4	28	
1N963B	11.4	12	12.6	10.5	11.5	700	0.25	5	9.1	26	
1N964B	12.35	13	13.65	9.5	13	700	0.25	5	9.9	24	
1N965B	14.25	15	15.75	8.5	16	700	0.25	5	11.4	21	
1N966B	15.2	16	16.8	7.8	17	700	0.25	5	12.2	19	
1N967B	17.1	18	18.9	7.0	21	750	0.25	5	13.7	17	
1N968B	19	20	21	6.2	25	750	0.25	5	15.2	15	
1N969B	20.9	22	23.1	5.6	29	750	0.25	5	16.7	14	
1N970B	22.8	24	25.2	5.2	33	750	0.25	5	18.2	13	
1N971B	25.652	27	28.35	4.6	41	750	0.25	5	20.6	11	
1N972B	8.5	30	31.5	4.2	49	1000	0.25	5	22.8	10	
1N973B	31.35	33	34.65	3.8	58	1000	0.25	5	25.1	9.2	
1N974B	34.2	36	37.8	3.4	70	1000	0.25	5	27.4	8.5	
1N975B	37.05	39	40.95	3.2	80	1000	0.25	5	29.7	7.8	
1N976B	40.85	43	45.15	3.0	93	1500	0.25	5	32.7	7.0	
1N977B	44.65	47	49.35	2.7	105	1500	0.25	5	35.8	6.4	
1N978B	48.45	51	53.55	2.5	125	1500	0.25	5	38.8	5.9	
1N979B	53.2	56	58.8	2.2	150	2000	0.25	5	42.6	5.4	
1N980B	58.9	62	65.1	2.0	185	2000	0.25	5	47.1	4.9	
1N981B	64.6	68	71.4	1.8	230	2000	0.25	5	51.7	4.5	

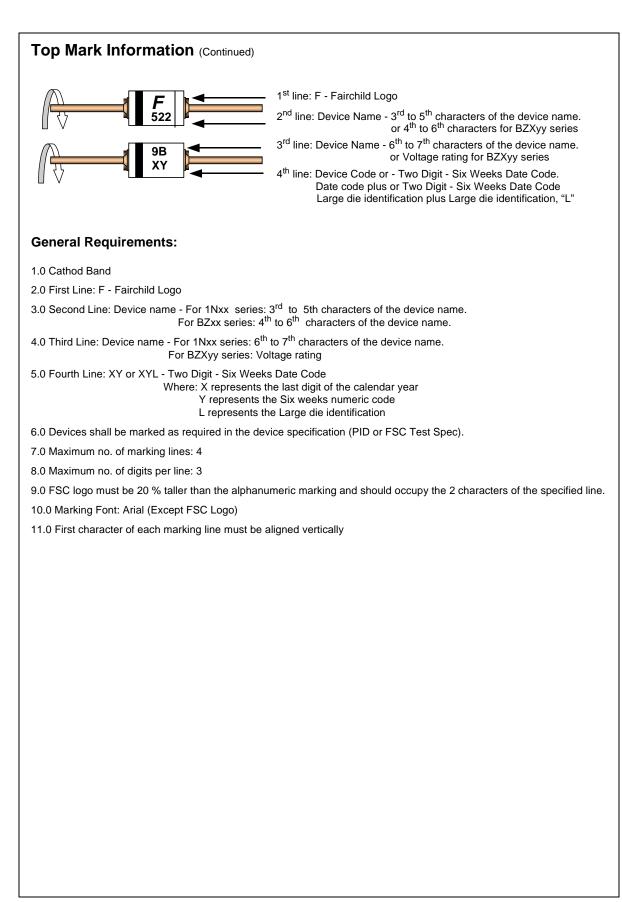
Zeners 1N957B - 1N991B

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Electrical Characteristics (Continued) T _A =25°C unless otherwise noted										
	V _Z (Volts) (Note 1)			Ζ_Ζ (Ω) (Note 2)			I _R @ V _R			
Device	Min.	Turn	Max.	@ I	7 @1	Z Z _{ZK} @			Volts	I _{ZM} (mA) (Note 3)
	win.	Тур.	wax.	@ I _Z	Z _Z @ I _Z	Ω mA	μΑ	voits		
1N982B	71.25	75	78.75	1.7	270	2000	0.25	5	56.0	4.1
1N983B	77.9	82	86.1	1.5	330	3000	0.25	5	62.2	3.7
1N984B	86.45	91	95.55	1.4	400	3000	0.25	5	69.2	3.3
1N985B	95	100	105	1.3	500	3000	0.25	5	76.0	3.0
1N986B	104.5	110	115.5	1.1	750	4000	0.25	5	83.6	2.7
1N987B	114	120	126	1.0	900	4500	0.25	5	91.2	2.5
1N988B	123.5	130	136.5	0.95	1100	5000	0.25	5	98.8	2.3
1N989B	142.5	150	157.5	0.85	1500	6000	0.25	5	114	2.0
1N990B	152	160	168	0.80	1700	6500	0.25	5	121.6	1.9
1N991B	171	180	189	0.68	2200	7100	0.25	5	136.8	1.7

Notes:
1. Zener Voltage (V_Z) Measurement Nominal zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (T_L) at 30°C ± 1°C and 3/8" lead length.
2. Zener Impedance (Z_Z) Derivation Z_{ZT} and Z_{ZA} are measured by dividing the ac voltage drop across the device by the ac current applied. The specified limits are for I_{Z(ac)} = 0.1 I_{Z(dc)} with the ac frequency = 60Hz.
3. Maximum Zener Current Ratings (I_{ZM}) The maximum current handling capability on a worst case basis is limited by the actual zener voltage at the operation point and the power derating curve.

Device	Line 1	Line 2	Line 3	Line 4
N957B	LOGO	957	В	XY
N958B	LOGO	958	В	XY
1N959B	LOGO	959	В	XY
1N960B	LOGO	960	В	XY
1N961B	LOGO	961	В	XY
N962B	LOGO	962	В	XY
IN963B	LOGO	963	В	XY
1N964B	LOGO	964	В	XY
1N965B	LOGO	965	В	XY
1N966B	LOGO	966	В	XY
1N967B	LOGO	967	В	XY
1N968B	LOGO	968	В	XY
1N969B	LOGO	969	В	XY
1N970B	LOGO	970	В	XY
N971B	LOGO	971	В	XY
1N972B	LOGO	972	В	XY
IN973B	LOGO	973	В	XY
N974B	LOGO	974	В	XY
N975B	LOGO	975	В	XY
IN976B	LOGO	976	В	XY
N977B	LOGO	977	В	XY
IN978B	LOGO	978	В	XY
1N979B	LOGO	979	В	XY
1N980B	LOGO	980	В	XY
IN981B	LOGO	981	В	XY
IN982B	LOGO	982	В	XY
1N983B	LOGO	983	В	XY
IN984B	LOGO	984	В	XY
1N985B	LOGO	985	В	XY
IN986B	LOGO	986	В	XY
IN987B	LOGO	987	В	XY
1N988B	LOGO	988	В	XY
1N989B	LOGO	989	В	XY
1N990B	LOGO	990	В	XY
1N991B	LOGO	991	В	XY



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