

1N957B - 1N979B **Zener Diodes**

June 2007

Tolerance = 5%



DO-35 Glass case COLOR BAND DENOTES CATHODE

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

Symbol	Parameter	Value	Units
P _D	Power Dissipation @ TL \leq 75°C, Lead Length = 3/8"	500	mW
	Derate above 75°C	4.0	mW/°C
T _J , T _{STG}	Operating and Storage Temperature Range	-65 to +200	°C

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

Electrical Characteristics TA=25°C unless otherwise noted

	V _Z (Volts) (Note 1)			Ζ_Ζ (Ω) (Note 2)		I _R @ V _R				
Device	Min	Tun	Typ. Max. ^{@ I} z (mA)	@ I _Z	7 @1	Z _{ZK} @ I _{ZK}			Volts	I _{ZM} (mA) (Note 3)
	WIIII.	Min. Typ.		Z _Z @ I _Z	Ω	mA	μΑ			
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

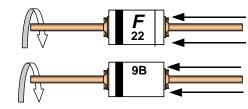
Notes:
1. Zener Voltage (V_Z) Measurement
Nominal zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (T_L) at 30°C ± 1°C and 3/8" lead length.

Nominal zener voltage is measured with the device junction in the thermal equilibrium at the lead temperature (r_L) at the C 1 + C and C 1 + C and

Top Mark Information

Device	Line 1	Line 2	Line 3
1N957B	LOGO	57	В
1N958B	LOGO	58	В
1N959B	LOGO	59	В
1N960B	LOGO	60	В
1N961B	LOGO	61	В
1N962B	LOGO	62	В
1N963B	LOGO	63	В
1N964B	LOGO	64	В
1N965B	LOGO	65	В
1N966B	LOGO	66	В
1N967B	LOGO	67	В
1N968B	LOGO	68	В
1N969B	LOGO	69	В
1N970B	LOGO	70	В
1N971B	LOGO	71	В
1N972B	LOGO	72	В
1N973B	LOGO	73	В
1N974B	LOGO	74	В
1N975B	LOGO	75	В
1N976B	LOGO	76	В
1N977B	LOGO	77	В
1N978B	LOGO	78	В
1N979B	LOGO	79	В

Top Mark Information (Continued)



1st line: F - Fairchild Logo

2nd line: Device Name - 4th to 5th characters of the device name. or 5th to 6th characters for BZXyy series 3rd line: Device Name - 6th to 7th characters of the device name. or Voltage rating for BZXyy series

General Requirements:

1.0 Cathode Band

2.0 First Line: F - Fairchild Logo

3.0 Second Line: Device name - For 1Nxx series: 4th to 5th characters of the device name.

For BZxx series: 5th to 6th characters of the device name.

4.0 Third Line: Device name - For 1Nxx series: 6th to 7th characters of the device name.

For BZXyy series: Voltage rating

5.0 Devices shall be marked as required in the device specification (PID or FSC Test Spec).

6.0 Maximum no. of marking lines: 3

7.0 Maximum no. of digits per line: 2

8.0 FSC logo must be 20 % taller than the alphanumeric marking and should occupy the 2 characters of the specified line.

9.0 Marking Font: Arial (Except FSC Logo)

10.0 First character of each marking line must be aligned vertically.

11.0 All device markings must be based on Fairchild device specification.



IN957B - 1N979B Zener Diodes

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