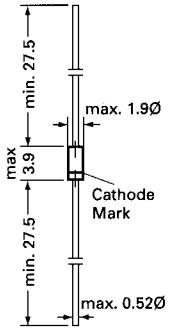
1N 957 ... 1N 978
SILICON PLANAR ZENER DIODES

Silicon Planar Zener Diodes
Standard Zener voltage tolerance is ±20%. Add suffix "A" for ±10% tolerance and suffix "B" for ±5% tolerance. Other tolerance, non standard and higher Zener voltages upon request.



Glass case JEDEC DO-35

Dimensions in mm

Absolute Maximum Ratings (T_a= 25 °C)

	Symbol	Value	Unit
Zener Current see Table " Characteristics "			
Power Dissipation at T_{amb} = 50 °C	P_{tot}	400[1)]	mW
Junction Temperature	T_j	175	°C
Storage Temperature Range	T_{stg}	-65 to + 175	°C
[1)] Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.			

Characteristics at T_{amb} = 25 °C

	Symbol	Min.	Typ	Max	Unit
Thermal Resistance Junction to Ambient Air	R_{thA}	-	-	0.3[1)]	K/mW
Forward Voltage at I_F = 200 mA	V_F	-	-	1.5	V
[1)] Valid provided that leads at a distance of 8 mm from case are kept at ambient temperature.					

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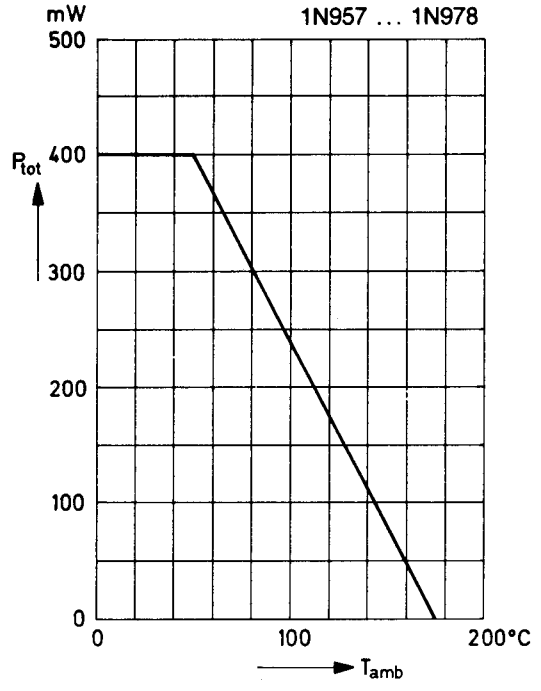
Type	Zener Voltage range [1]		Dynamic resistance			Typical Temperature coefficient	Maximum Reverse Leakage Current			Maximum Regulator Current
	V_{znom}	I_{ZT}	r_{zjT}	r_{zjk} at I_{Zk}			I_R [2]	Test - Voltage Suffix A	Suffix B	I_{ZM}
	V	mA	Ω	Ω	mA	(% / °C)	µA	V	V	mA
1N957	6.8	18.5	4.5	700	1.0	0.050	150	4.9	5.2	47
1N958	7.5	16.5	5.5	700	0.5	0.058	75	5.4	5.7	42
1N959	8.2	15	6.5	700	0.5	0.062	50	5.9	6.2	38
1N960	9.1	14	7.5	700	0.5	0.068	25	6.6	6.9	35
1N961	10	12.5	8.5	700	0.25	0.075	10	7.2	7.6	32
1N962	11	11.5	9.5	700	0.25	0.076	5	8.0	8.4	28
1N963	12	10.5	11.5	700	0.25	0.077	5	8.6	9.1	26
1N964	13	9.5	13	700	0.25	0.079	5	9.4	9.9	24
1N965	15	8.5	16	700	0.25	0.082	5	10.8	11.4	21
1N966	16	7.8	17	700	0.25	0.083	5	11.5	12.2	19
1N967	18	7.0	21	750	0.25	0.085	5	13.0	13.7	17
1N968	20	6.2	25	750	0.25	0.086	5	14.4	15.2	15
1N969	22	5.6	29	750	0.25	0.087	5	15.8	16.7	14
1N970	24	5.2	33	750	0.25	0.088	5	17.3	18.2	13
1N971	27	4.6	41	750	0.25	0.090	5	19.4	20.6	11
1N972	30	4.2	49	1000	0.25	0.091	5	21.6	22.8	10
1N973	33	3.8	58	1000	0.25	0.092	5	23.8	25.1	9.0
1N974	36	3.4	70	1000	0.25	0.093	5	25.9	27.4	8.5
1N975	39	3.2	80	1000	0.25	0.094	5	28.1	29.7	7.8
1N976	43	3.0	93	1500	0.25	0.095	5	31.0	32.7	7.0
1N977	47	2.7	105	1500	0.25	0.095	5	33.8	35.8	6.4
1N978	51	2.5	125	1500	0.25	0.095	5	36.7	38.8	5.9

[1] Tested with pulses tp = 20 ms.

[2] Valid provided that leads are kept at ambient temperature at a distance of 8 mm from case.

Admissible power dissipation versus ambient temperature

Valid provided that leads are kept at ambient temperature at a distance of 10 mm from case.



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