

Zeners 1N4678 - 1N4702

Absolute Maximum Ratings * T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation @ TL ≤ 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 T_A=25°C unless otherwise noted

Dovice	V _Z (Volts) @ I _Z = 50μA (Note 1)		I _R @ V _R		I _{ZM} (mA)	ΔV _Z (Volts)	
Device	Min.	Тур.	Max.	μА	Volts	(Note 2)	(Note 3)
1N4678	1.71	1.8	1.89	7.5	1	120	0.7
1N4679	1.9	2	2.1	5	1	110	0.7
1N4680	2.09	2.2	2.31	4	1	100	0.75
1N4681	2.28	2.4	2.52	2	1	95	0.8
1N4682	2.565	2.7	2.835	1	1	90	0.85
1N4683	2.85	3	3.15	0.8	1	85	0.9
1N4684	3.135	3.3	4.465	7.5	1.5	80	0.95
1N4685	3.42	3.6	3.78	7.5	2	75	0.95
1N4686	3.705	3.9	4.095	5	2	70	0.97
1N4687	4.085	4.3	4.515	4	2	65	0.99
1N4688	4.465	4.7	4.935	10	3	60	0.99
1N4689	4.845	5.1	5.355	10	3	55	0.97
1N4690	5.32	5.6	5.88	10	4	50	0.96
1N4691	5.89	6.2	6.51	10	5	45	0.95
1N4692	6.45	6.8	7.14	10	5.1	35	0.9
1N4693	7.125	7.5	7.785	10	5.7	31.8	0.75
1N4694	7.79	8.2	8.61	1	6.2	29	0.5
1N4695	8.265	8.7	9.135	1	6.6	27.4	0.1
1N4696	8.645	9.1	9.555	1	6.9	26.2	0.08
1N4697	9.5	10	10.5	1	7.6	24.8	0.1
1N4698	10.45	11	11.55	0.05	8.4	21.6	0.11
1N4699	11.4	12	12.6	0.05	9.1	20.4	0.12
1N4700	12.35	13	13.65	0.05	9.8	19	0.13
1N4701	13.3	14	14.7	0.05	10.6	17.5	0.14
1N4702	14.25	15	15.75	0.05	11.4	16.3	0.15

V_F Forward Voltage = 1.5V Max @ I_F = 100mA

- Notes:

 1. Zener Voltage (V₂)
 The zener voltage is measured with the device junction in the themal equilibrium at the lead temperature (T_L) at 30°C ± 1°C and 3/8" lead length.

 2. Maximum Zener Current Ratings (I_{2M})
 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.
- 3. Maximum Voltage Change ($\Delta V_{\rm Z}$) Voltage change is equal to the difference between $V_{\rm Z}$ at 100 μ A and at 10 μ A.

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