Temperature-Compensated Zener Diodes **ZTK6,8 to ZTK33** (DO-35 Glass Package)

Linear integrated circuits generating an extremely constant temperature-compensated reference voltage with an extremely short thermal run-in time, particularly suitable for stabilizing the tuning voltage of electronic tuned TV and radio receivers employing capacitance diodes.

Type	Operating Voltage at I_Z = 5 mA*		Dynamic Resistance at I_Z = 5 mA		Temperature Coefficient of Op. Voltage at I_Z = 5 mA			Thermal Run-in Time	Operating Current at T_A = 45 °C
	min. V	max. V	typ. Ω	max. Ω	x 10^{-5}/°C min.	typ.	max.	seconds	max. mA
ZTK6,8	6.4	7.1	12	25	−10	−2	+5	20	36
ZTK9	8	10	10	25	−10	−2	+5	20	27
ZTK11	10	12	10	25	−10	−2	+5	20	19
ZTK18	16	20	11	25	−10	−2	+5	20	13
ZTK22	20	24	11	25	−10	−2	+5	20	10
ZTK27	24	30	12	25	−10	−2	+5	20	8
ZTK33A	30	32	12	25	−10	−2	+5	20	7
ZTK33B	32	34	12	25	−10	−2	+5	20	7
ZTK33C	34	36	12	25	−10	−2	+5	20	7

*Measured with pulses tp = 20 ms

Silicon Stabilizer Diodes **ZTE1,5 to ZTE5,1** (DO-35 Glass Package)
LL1,5 to LL5,1 (MiniMELF Glass Package)

The end of the device marked with the cathode ring is to be connected: ZTE/LL1,5 and ZTE/LL2 to the negative pole of the supply voltage
ZTE/LL2,4...ZTE/LL5,1 to the positive pole of the supply voltage

Type		Stabilized Voltage at I_Z= 5 mA*		Dynamic Resistance at I_Z= 5 mA f = 1 kHz		Temperature Coefficient of Stab. Volt. at I_Z = 5 mA	max. Thermal Resistance	Operating Current at T_A = 25 °C	Forward Current at T_A = 25 °C	Power Dissipation at T_A = 25 °C	Junction Temperature
		min. V	max. V	typ. Ω	max. Ω	10^{-4}/°C	°C/mW	max. mA	max. mA	max. mW	max. °C
ZTE1,5	**LL1,5**	1.35	1.55	13	20	−26	0.4	120	100	300	150
ZTE2	**LL2**	2.0	2.3	18	30	−26	0.4	120	100	300	150
ZTE2,4	**LL2,4**	2.2	2.56	14	20	−34	0.4	120	100	300	150
ZTE2,7	**LL2,7**	2.5	2.9	15	20	−34	0.4	105	100	300	150
ZTE3	**LL3**	2.8	3.2	15	20	−34	0.4	95	100	300	150
ZTE3,3	**LL3,3**	3.1	3.5	16	20	−34	0.4	90	100	300	150
ZTE3,6	**LL3,6**	3.4	3.8	16	25	−34	0.4	80	100	300	150
ZTE3,9	**LL3,9**	3.7	4.1	17	25	−34	0.4	75	100	300	150
ZTE4,3	**LL4,3**	4.0	4.6	17	25	−34	0.4	65	100	300	150
ZTE4,7	**LL4,7**	4.4	5.0	18	25	−34	0.4	60	100	300	150
ZTE5,1	**LL5,1**	4.8	5.4	18	25	−34	0.4	55	100	300	150

*Measured with pulses tp = 20 ms