

**KZ43A -
KZ100A
KZ343A -
KZ3100A
KZ450 -**

Zener Diodes

LOW NOISE, LOW LEAKAGE

Type Number	Nominal Voltage Vz @ Iz1 (Vdc)	Test Current Izt (mA)	Max Zener Impedance Zzt @ Iz1 (ohms)	Max Reverse Leakage Current	
				Ir (μ Adc)	Vr (Vdc)
KZ43A	4.3	20	12	4.0	1.5
KZ47A	4.7	10	15	4.0	2.0
KZ51A	5.1	5	15	0.1	2.0
KZ56A	5.6	1	40	0.05	3.0
KZ62A	6.2	1	50	0.05	4.0
KZ68A	6.8	1	50	0.05	5.0
KZ75A	7.5	1	100	0.01	6.0
KZ82A	8.2	1	100	0.01	6.5
KZ91A	9.1	1	100	0.01	8.0
KZ100A	10.0	1	100	0.01	9.0
KZ343A	4.3	20	18	2.0	1.5
KZ347A	4.7	10	10	2.0	2.0
KZ351A	5.1	5	10	2.0	3.0
KZ356A	5.6	1	40	2.0	4.5
KZ362A	6.2	1	45	0.5	5.6
KZ368A	6.8	1	50	0.05	6.2
KZ375A	7.5	1	50	0.01	6.8
KZ382A	8.2	1	60	0.01	7.5
KZ391A	9.1	1	60	0.01	8.2
KZ3100A	10.0	1	60	0.01	9.1

These low level zener diodes are designed for use at current levels as low as 50 μ A. They feature sharp knees, low leakage, low impedance, and low noise. The devices are available in the DO-7 glass package and in die form.

LOW NOISE, LOW CURRENT

Type Number	Nominal Voltage 250 μ A	Max Zener Impedance [†] 250 μ A	Max Reverse Leakage		Max Regulation Factor Izh to Iz1			Typical TC 250 μ Adc
			Ir @ Vr (μ Adc)	(Vdc)	Vz (Vdc)	Izh (μ Adc)	Iz1 (μ Adc)	
KZ450	5.0	700	10.0	4.00	0.40	1.0	100	0.75
KZ453	5.3	250	5.0	4.24	0.20	1.0	100	1.33
KZ456	5.6	100	1.0	4.48	0.10	1.0	50	1.96
KZ459	5.9	100	0.5	4.72	0.10	1.0	10	2.30
KZ462	6.2	100	0.1	4.96	0.10	1.0	10	2.67
KZ465	6.5	100	0.05	5.20	0.10	1.0	10	3.06
KZ468	6.8	100	0.01	5.44	0.10	1.0	10	3.40
KZ471	7.1	175	0.01	5.68	0.10	1.0	10	3.76
KZ474	7.4	175	0.01	5.92	0.10	1.0	10	4.07
KZ477	7.7	175	0.01	6.16	0.10	1.0	10	4.47
KZ480	8.0	175	0.01	6.40	0.10	1.0	10	4.80
KZ483	8.3	175	0.01	6.64	0.10	1.0	10	5.15
KZ486	8.6	175	0.01	6.88	0.10	1.0	10	5.50
KZ489	8.9	175	0.01	7.12	0.10	1.0	10	5.87
KZ492	9.2	175	0.01	7.36	0.10	1.0	10	6.16
KZ495	9.5	175	0.01	7.60	0.10	1.0	10	6.46
KZ498	9.8	175	0.01	7.84	0.10	1.0	10	6.86

MAXIMUM RATINGS

	KZ43A - KZ100A	KZ343A - KZ3100A	KZ450 - KZ498
Forward Voltage (Vf)	@ If = 200 mAdc 1.5 Vdc	1.2 Vdc	1.5 Vdc
Noise Density (Nd)	@ Iz = 250 μ Adc [†] 4.0 μ V / \sqrt Hz	1.0 μ V / \sqrt Hz	1.0 μ V / \sqrt Hz
Power Dissipation (Pd)	@ Ta = 25 °C 400 mW	400 mW	400 mW
Operating Temperature (Topr)	- 65 to + 175 °C	- 65 to + 175 °C	- 65 to + 175 °C
Storage Temperature (Tstg)	- 65 to + 200 °C	- 65 to + 200 °C	- 65 to + 200 °C
Voltage Tolerance:	Standard device Suffix A Suffix B Suffix C	\pm 10 % \pm 5 % \pm 2 % \pm 1 %	\pm 10 % \pm 5 % \pm 2 % \pm 1 %
			\pm 0.20 Vdc \pm 0.15 Vdc \pm 0.10 Vdc

[†] Impedance measured with 10 % 60 Hz AC superimposed on Iz1.

* Noise Density on devices KZ391A, KZ3100A, and KZ489 to KZ498 increases to 2.0 max. Noise Density measured from 1000 to 3000 Hz.