ZENER DIODES

LOW VOLTAGE AVALANCHE ZENER DIODES
400 mW / T_{amb} = 25°C T_j max = 175°C

general purpose series

Type	V_{ZT} / I_{ZT} nom (V) (1) (2) (4)	I_{ZT} (mA)	r_{ZT} / I_{ZT} (Ω) (5)	I_R (μA)	/ V_R (V)	Noise Density @ 250 μA max (μV/ √Hz) (7)	Package
T-LVA 47A	4.7	10	15	4.0	2.0	4	DO 35
T-LVA 51A	5.1	5	15	0.1	2.0	4	
P T-LVA 56A	5.6	1	40	0.05	3.0	4	
P T-LVA 62A	6.2	1	50	0.05	4.0	4	
P T-LVA 68A	6.8	1	50	0.05	5.0	4	
T-LVA 75A	7.5	1	100	0.01	6.0	4	
P T-LVA 82A	8.2	1	100	0.01	6.5	4	
T-LVA 91A	9.1	1	100	0.01	8.0	4	
T-LVA 100A	10.0	1	100	0.01	9.0	4	

high performance series

Type	V_{ZT} / I_{ZT} nom (V) (1) (2) (4)	I_{ZT} (mA)	r_{ZT} / I_{ZT} (Ω) (5)	I_R (μA)	/ V_R (V)	Noise Density @ 250 μA max (μV/ √Hz) (7)	Maximum Regulation I_{ZT} – I_{ZL} ΔV_Z (V)	I_{ZL} (mA)	Package
T-LVA 347A	4.7	10	10	2.0	2.0	1	0.50	1.0	DO 35
T-LVA 351A	5.1	5	10	2.0	3.0	1	0.30	0.25	
T-LVA 356A	5.6	1	40	2.0	4.5	1	0.10	0.05	
T-LVA 362A	6.2	1	45	0.5	5.6	1	0.10	0.01	
T-LVA 368A	6.8	1	50	0.05	6.2	1	0.10	0.01	
T-LVA 375A	7.5	1	50	0.01	6.8	1	0.10	0.01	
T-LVA 382A	8.2	1	60	0.01	7.5	1	0.10	0.01	
T-LVA 391A	9.1	1	60	0.01	8.2	2	0.10	0.01	
T-LVA 3100A	10.0	1	60	0.01	9.1	2	0.10	0.01	

high performance, low current series

Type	V_{ZT} @ 250 μA nom (V) (1) (3) (4)	r_{ZT} @ 250 μA max (Ω)	θV_Z @ 250 μA nom (mV/°C) (6)	I_R @ 80 % V_Z max (μA)	Maximum Regulation ΔV_Z (V)	I_{LO} (μA)	I_{Hi} (mA)	Noise Density @ 250 μA max (μV/ √Hz) (7)	Typical Parameters V_Z @ 10 μA (V)	I_R @ 50 % V_Z (nA)	I_R @ 90 % V_Z (nA)	Package
P T-LVA 450A	5.0	700	0.75	10.0	0.40	100	1.0	1	4.15	70	15000	DO 35
P T-LVA 453A	5.3	250	1.33	5.0	0.20	100	1.0	1	4.9	35	7000	
P T-LVA 456A	5.6	100	1.96	1.0	0.10	50	1.0	1	5.45	15	3000	
T-LVA 459A	5.9	100	2.30	0.5	0.10	10	1.0	1	5.85	2.5	1000	
P T-LVA 462A	6.2	100	2.67	0.1	0.10	10	1.0	1	6.2	0.8	130	
T-LVA 465A	6.5	100	3.06	0.05	0.10	10	1.0	1	6.5	0.15	25	
P T-LVA 468A	6.8	100	3.40	0.01	0.10	10	1.0	1	6.8	< 0.10	9.0	
T-LVA 471A	7.1	175	3.76	0.01	0.10	10	1.0	1	7.1	< 0.10	5.5	
T-LVA 474A	7.4	175	4.07	0.01	0.10	10	1.0	1	7.4	< 0.10	3.0	
T-LVA 477A	7.7	175	4.47	0.01	0.10	10	1.0	1	7.7	< 0.10	2.5	
T-LVA 480A	8.0	175	4.80	0.01	0.10	10	1.0	1	8.0	< 0.10	1.8	
T-LVA 483A	8.3	175	5.15	0.01	0.10	10	1.0	1	8.3	< 0.10	1.2	
T-LVA 486A	8.6	175	5.50	0.01	0.10	10	1.0	1	8.6	< 0.10	0.9	
T-LVA 489A	8.9	175	5.87	0.01	0.10	10	1.0	2	8.9	< 0.10	0.6	
T-LVA 492A	9.2	175	6.16	0.01	0.10	10	1.0	2	9.2	< 0.10	0.5	
T-LVA 495A	9.5	175	6.46	0.01	0.10	10	1.0	2	9.5	< 0.10	0.5	
P T-LVA 498A	9.8	175	6.86	0.01	0.10	10	1.0	2	9.8	< 0.10	0.4	

(1) For other voltages, consult the manufacturer.
(2) Tolerance on nominal V_{ZT} value : ± 5 %.
(3) Tolerance on nominal V_{ZT} value : ± 0.2 V.
(4) For other tolerances, consult the manufacturer.
(5) Measured @ DC test current with 10 % AC superimposed (50 Hz).
(6) Tolerance : ± 0.5 mV/°C, 0 to 100°C, at V_{ZT} nominal only.
(7) Noise measured at 1000 Hz with a Diode Noise Analyser «Quan-tech» Model 327 - Bandpass 1000 Hz.
P : Preferred voltages.