

# 1N5837 thru 1N5881 ZENER REGULATOR DIODES



TO-92 2-Lead Package

## FEATURES

- 500 mW Power Dissipation
- Low-Cost TO-92 Package
- Silicon-Oxide Passivated Junction
- 2.4 V thru 62 V Ratings
- $\pm 5\%$ ,  $\pm 10\%$ ,  $\pm 20\%$  Zener Tolerances
- In-Line Leads for Easy Insertion
- Leads Easily Soldered or Welded

Type Number <sup>†</sup>	Nom. Zener Volt.		Max. Zener Impedance		Max. Reverse Leakage Current		Maximum D-C Zener Current $I_{ZM}$ (mA)	Typical Zener Voltage Coeff. $\frac{\Delta V_Z}{V_Z} (\%/^{\circ}C)$
	$V_{ZT}$ (V)	$I_{ZT}$ (mA)	$Z_{ZT}$ at $I_{ZT}$ ( $\Omega$ )	$Z_{ZK}$ at 250 $\mu A$ ( $\Omega$ )	$I_R$ at $V_R$ ( $\mu A$ )	$V_R$ (V)		
1N5837	2.4	20	50	2100	100.0	1.0	210	-1.030
1N5838	2.5	20	50	2100	100.0	1.0	200	-1.030
1N5839	2.7	20	50	2200	75.0	1.0	185	-1.010
1N5840	2.8	20	50	2200	75.0	1.0	179	-0.060
1N5841	3.0	20	50	2300	50.0	1.0	167	-0.050
1N5842	3.3	20	50	2500	25.0	1.0	151	-0.040
1N5843	3.6	20	48	2700	15.0	1.0	139	-0.030
1N5844	3.9	20	40	2800	10.0	1.0	129	-0.020
1N5845	4.3	20	25	2900	5.0	1.0	116	-0.010
1N5846	4.7	20	19	2600	5.0	2.0	106	+0.012
1N5847	5.1	20	17	2400	5.0	2.0	98	+0.025
1N5848	5.6	20	15	2100	5.0	3.0	89	+0.035
1N5849	6.0	20	13	1900	5.0	3.5	83	+0.038
1N5850	6.2	20	14	1500	5.0	4.0	80	+0.040
1N5851	6.8	20	17	780	3.0	5.0	74	+0.045
1N5852	7.5	20	23	700	3.0	6.0	67	+0.053
1N5853	8.2	20	34	700	3.0	6.5	61	+0.058
1N5854	8.7	20	44	700	3.0	6.5	57	+0.061
1N5855	9.1	20	50	700	3.0	7.0	55	+0.063
1N5856	10	20	62	700	3.0	8.0	50	+0.066
1N5857	11	20	68	700	2.0	8.4	45	+0.070
1N5858	12	20	70	700	1.0	9.1	41.5	+0.072
1N5859	13	9.5	70	700	0.5	9.9	38.5	+0.075
1N5860	14	9.0	70	700	0.1	10	35.5	+0.077
1N5861	15	8.5	34	700	0.1	11	33	+0.072
1N5862	16	7.8	38	700	0.1	12	31	+0.073
1N5863	17	7.4	42	700	0.1	13	29	+0.075
1N5864	18	7.0	48	700	0.1	14	28	+0.076
1N5865	19	6.6	52	700	0.1	14	26	+0.077
1N5866	20	6.2	57	700	0.1	15	25	+0.078
1N5867	22	5.6	68	700	0.1	17	22.6	+0.080
1N5868	24	5.2	78	700	0.1	18	21.7	+0.082
1N5869	25	5.0	85	700	0.1	19	20	+0.083
1N5870	27	4.6	98	700	0.1	21	18.5	+0.084
1N5871	28	4.5	106	700	0.1	21	17.9	+0.085
1N5872	30	4.2	117	700	0.1	23	16.7	+0.087
1N5873	33	3.8	140	700	0.1	25	15.1	+0.090
1N5874	36	3.4	160	700	0.1	27	13.9	+0.092
1N5875	39	3.2	190	800	0.1	30	12.9	+0.095
1N5876	43	3.0	225	900	0.1	33	11.6	+0.100
1N5877	47	2.7	260	1000	0.1	36	10.6	+0.104
1N5878	51	2.5	300	1100	0.1	39	9.8	+0.106
1N5879	56	2.2	360	1300	0.1	43	8.9	+0.107
1N5880	60	2.1	410	1500	0.1	46	8.3	+0.109
1N5881	62	2.0	430	1600	0.1	47	8.0	+0.110

<sup>†</sup>Type numbers shown are for a Zener voltage tolerance of  $\pm 20\%$ . To order a tolerance of  $\pm 10\%$ , add the suffix 'A' to the type number. To order a tolerance of  $\pm 5\%$ , add the suffix 'B' to the type number.

## TYPE NV-101 DUAL VOLTAGE-VARIABLE CAPACITANCE DIODE

Specially designed for top-of-the-line F-M radio tuning applications requiring back-to-back (common cathode) voltage-variable capacitance diodes for minimum signal distortion and detuning. Type NV-101 dual diodes provide capacitance matching to within  $\pm 1\%$  over the tuning range. Additional applications include general frequency control in VHF amplifiers or oscillators. The monolithic dual-diode configuration insures excellent thermal tracking with minimum printed wiring board space. On special order, these diodes can be supplied in matched sets for capacitance to within  $\pm 1.5\%$  or 0.1 pF (whichever is greater) over a specified tuning range.

### FEATURES:

- Matched to  $\pm 1\%$
- Monolithic Construction
- Low-Cost TO-92 Package
- 44 pF at 2 V
- $BV_R$  of 32 V Min.

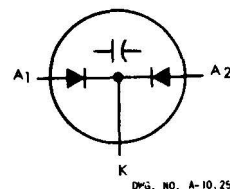


FIG. NO. A-10.251



TO-92 Package