

# 50 WATT, Metal (Case TO-3, .050" Pin Dia.)

JEDEC TYPE NUMBER †	NOMINAL ZENER VOLTAGE Vz VOLTS	TEST CURRENT I <sub>ZT</sub> mA	MAXIMUM ZENER IMPEDANCE			MAXIMUM REVERSE LEAKAGE CURRENT			MAXIMUM DC ZENER CURRENT I <sub>ZM</sub> mA	TYPICAL TEMPERATURE COEFFICIENT @ I <sub>ZT</sub> %/°C
			Z <sub>ZT</sub> @ I <sub>ZT</sub> Ohms	Z <sub>ZK</sub> @ I <sub>ZK</sub> Ohms	mA	I <sub>R</sub> @ V <sub>R1</sub> * @ 25°C μA	V <sub>R1</sub> * @ 25°C VOLTS	V <sub>R2</sub> ** VOLTS		
1N2804B	6.8	1850	0.2	70	5	150	4.5	4.3	6600	.040
1N2805B	7.5	1700	0.3	70	5	75	5.0	4.7	5900	.045
1N2806B	8.2	1500	0.4	70	5	50	5.4	5.2	5200	.048
1N2807B	9.1	1370	0.5	70	5	25	6.1	5.7	4800	.051
1N2808B	10	1200	0.6	80	5	10	6.7	6.3	4300	.055
1N2809B	11	1100	0.8	80	5	5	8.4	8.0	3900	.060
1N2810B	12	1000	1.0	80	5	5	9.1	8.6	3600	.065
1N2811B	13	960	1.1	80	5	5	9.9	9.4	3300	.065
1N2812B	14	890	1.2	80	5	5	10.6	10.1	3000	.070
1N2813B	15	830	1.4	80	5	5	11.4	10.8	2800	.070
1N2814B	16	780	1.6	80	5	5	12.2	11.5	2650	.070
1N2815B	17	740	1.8	80	5	5	13.0	12.2	2500	.075
1N2816B	18	700	2.0	80	5	5	13.7	13.0	2300	.075
1N2817B	19	660	2.2	80	5	5	14.4	13.7	2200	.075
1N2818B	20	630	2.4	80	5	5	15.2	14.4	2100	.075
1N2819B	22	570	2.5	80	5	5	16.7	15.8	1900	.080
1N2820B	24	520	2.6	80	5	5	18.2	17.3	1750	.080
1N2821B	25	500	2.7	90	5	5	19.0	18.0	1550	.080
1N2822B	27	460	2.8	90	5	5	20.6	19.4	1500	.085
1N2823B	30	420	3.0	90	5	5	22.8	21.6	1400	.085
1N2824B	33	380	3.2	90	5	5	25.1	23.8	1300	.085
1N2825B	36	350	3.5	90	5	5	27.4	25.9	1150	.085
1N2826B	39	320	4.0	90	5	5	29.7	28.1	1050	.090
1N2827B	43	290	4.5	90	5	5	32.7	31.0	975	.090
1N2828B	45	280	4.5	100	5	5	34.2	32.4	930	.090
1N2829B	47	270	5.0	100	5	5	35.8	33.8	880	.090
1N2830B	50	250	5.0	100	5	5	38.0	36.0	830	.090
1N2831B	51	245	5.2	100	5	5	38.8	36.7	810	.090
1N2832B	56	220	6	110	5	5	42.6	40.3	740	.090
1N2833B	62	200	7	120	5	5	47.1	44.6	660	.090
1N2834B	68	180	8	140	5	5	51.7	49.0	600	.090
1N2835B	75	170	9	150	5	5	56.0	54.0	540	.090
1N2836B	82	150	11	160	5	5	62.2	59.0	490	.090
1N2837B	91	140	15	180	5	5	69.2	65.5	420	.090
1N2838B	100	120	20	200	5	5	76.0	72.0	400	.090
1N2839B	105	120	25	210	5	5	79.8	75.6	380	.095
1N2840B	110	110	30	220	5	5	83.6	79.2	365	.095
1N2841B	120	100	40	240	5	5	91.2	86.4	335	.095
1N2842B	130	95	50	275	5	5	98.8	93.6	310	.095
1N2843B	150	85	75	400	5	5	114.0	108.0	270	.095
1N2844B	160	80	80	450	5	5	121.6	115.2	250	.095
1N2845B	180	68	90	525	5	5	136.8	129.6	220	.095
1N2846B	200	65	100	600	5	5	152.0	144.0	200	.100

Vz @ Tc = 30°C

Vf = 1.5 max @ 10 A on all types.

Standard Polarity – Anode to Case

† Non-Suffix Vz = ±20%

A Suffix Vz = ±10%

B Suffix Vz = ±5%

\*VR1 – Test Voltage for 5% Tolerance Device, Suffix B

\*\*VR2 – Test Voltage for 10% Tolerance Device, Suffix A

No Leakage Specified for 20% Tolerance Device, Non Suffix

Available in JAN and JANTX per MIL-S-19500/114

