



### 50W Zener Diodes

#### Features

- Glass passivated junction
- Good clamping ability
- Available in Normal and Reverse polarity
- Metric and UNF thread type

#### Mechanical Characteristics

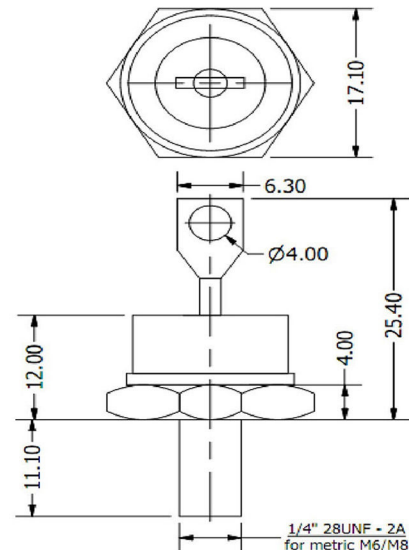
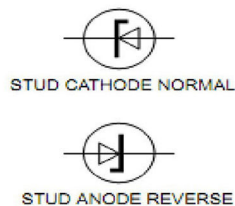
- Hermetically sealed DO-5 outline
- Polarity: Indicated by direction of Zener symbol
- External surfaces corrosion resistant & terminal Solderable
- Weight: 16grams

#### Electrical Data

- DC power Dissipation: 50 Watts
- Voltage Range 6.8 -200 Volts
- Operating temperature  $-65^{\circ}\text{C}$  to  $+175^{\circ}\text{C}$
- Derating:  $0.5\text{W}/^{\circ}\text{C}$  over  $75^{\circ}\text{C}$
- Forward Voltage @10A: 1.5Volts



DO-203AB (DO-5)



**ALL DIMENSIONS IN MM**



### 50W Zener Diodes

Electrical Characteristics (T <sub>C</sub> = 25°C unless otherwise specified)								
Type number	Nominal Zener Voltage V <sub>Z</sub> @I <sub>ZT</sub> (Volts)	Zener Test Current I <sub>ZT</sub> (mA)	Max Zener Impedance		Max DC Zener Current I <sub>ZM</sub> (mA)	Typical Temp. Coeff. a <sub>VZ</sub> (%/°C)	Max Reverse Current	
			Z <sub>ZT</sub> @I <sub>ZT</sub> (Ohms)	Z <sub>ZK</sub> @5mA(I <sub>ZK</sub> ) (Ohms)			I <sub>R</sub> (μA)	V <sub>R</sub> (Volts)
1N3305	6.8	1850	0.20	70	6600	0.040	150	4.5
1N3306	7.5	1700	0.30	70	5900	0.045	75	5.0
1N3307	8.2	1500	0.40	70	5200	0.048	50	5.4
1N3308	9.1	1370	0.50	70	4800	0.051	25	6.1
1N3309	10.0	1200	0.60	80	4300	0.055	10	6.7
1N3310	11.0	1100	0.80	80	3900	0.060	5	8.4
1N3311	12.0	1000	1.00	80	3600	0.065	5	9.1
1N3312	13.0	960	1.10	80	3300	0.065	5	9.9
1N3313	14.0	890	1.20	80	3000	0.070	5	10.6
1N3314	15.0	830	1.40	80	2800	0.070	5	11.4
1N3315	16.0	780	1.60	80	2650	0.070	5	12.2
1N3316	17.0	740	1.80	80	2500	0.075	5	13.0
1N3317	18.0	700	2.00	80	2300	0.075	5	13.7
1N3318	19.0	660	2.20	80	2200	0.075	5	14.4
1N3319	20.0	630	2.40	80	2100	0.075	5	15.2
1N3320	22.0	570	2.50	80	1900	0.080	5	16.7
1N3321	24.0	520	2.60	80	1750	0.080	5	18.2
1N3322	25.0	500	2.70	90	1550	0.080	5	19.0
1N3323	27.0	460	2.80	90	1500	0.085	5	20.6
1N3324	30.0	420	3.00	90	1400	0.085	5	22.8
1N3325	33.0	380	3.20	90	1300	0.085	5	25.1
1N3326	36.0	350	3.50	90	1150	0.085	5	27.4
1N3327	39.0	320	4.00	90	1050	0.090	5	29.7
1N3328	43.0	290	4.50	90	975	0.090	5	32.7
1N3329	45.0	280	4.50	100	930	0.090	5	34.2
1N3330	47.0	270	5.00	100	880	0.090	5	35.8
1N3331	50.0	250	5.00	100	830	0.090	5	38.0
1N3332	51.0	245	5.20	100	810	0.090	5	38.8
1N3333	52.0	240	5.50	100	790	0.090	5	39.5
1N3334	56.0	220	6.00	110	740	0.090	5	42.6
1N3335	62.0	200	7.00	120	660	0.090	5	47.1
1N3336	68.0	180	8.00	140	600	0.090	5	51.7
1N3337	75.0	170	9.00	150	540	0.090	5	56.0
1N3338	82.0	150	11.00	160	490	0.090	5	62.2
1N3339	91.0	140	15.00	180	420	0.090	5	69.2
1N3340	100.0	120	20.00	200	400	0.090	5	76.0
1N3341	105.0	120	25.00	210	380	0.095	5	79.8
1N3342	110.0	110	30.00	220	365	0.095	5	83.6
1N3343	120.0	100	40.00	240	335	0.095	5	91.2
1N3344	130.0	95	50.00	275	310	0.095	5	98.8
1N3345	140.0	90	60.00	325	290	0.095	5	106.4
1N3346	150.0	85	75.00	400	270	0.095	5	114.0
1N3347	160.0	80	80.00	450	250	0.095	5	121.6
1N3348	175.0	70	85.00	500	230	0.095	5	133.0
1N3349	180.0	68	90.00	525	220	0.095	5	136.8
1N3350	200.0	65	100.0	600	200	0.100	5	152.0

- Zener impedance is derived from 60Hz AC voltage which results when AC current RMS value (which equals 10% of the DC zener current) is superimposed on I<sub>Z</sub>
- I<sub>ZM</sub> values are derived for a ±5% V<sub>Z</sub> tolerance  
**Standard voltage tolerances are ±5% (B suffix), ±10% (A suffix) & ±20% (no suffix)**



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