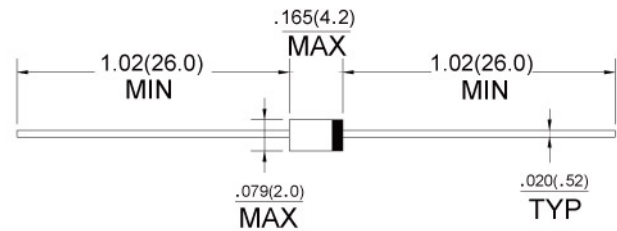


FEATURES

- Voltage Range: 2.4V to 75V
- Standard Zener Voltage tolerance $\pm 5\%$
- (2% Zener tolerance available)

MECHANICAL DATA

- Glass case DO-35
- Weight: approx. 125mg



DO-35(Glass)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

(TA=25°C unless otherwise specified.)

Parameter	Symbol	Value	Unit
Power Dissipation at Tamb=25°C	P _D	500	mW
Forward Voltage at I _F =200mA	V _F	1.1	Volts
Thermal Resistance Junction to Ambient Air	R _{θJA}	300	K/W
Junction Temperature	T _J	175	°C
Storage Temperature Range	T _{STG}	-65 to +175	°C

Part Number	Nominal Zener voltage	Test current	Maximum dynamic Impedance	Maximum dynamic Impedance	Temperature Typical Coefficient	Maximum Reverse leakage current	
	at I _{ZT} , V _Z	I _{ZT}	Z _{KT} at I _{ZT}	Z _{KT} at I _{ZK} =0.25mA	at I _{ZT}	I _R	V _R
	V	mA	Ω	Ω	α (%/K)	μA	V
1N5221B	2.4	20	30	1200	-0.085	100	1
1N5222B	2.5	20	30	1250	-0.085	100	1
1N5223B	2.7	20	30	1300	-0.080	75	1
1N5224B	2.8	20	30	1400	-0.080	75	1
1N5225B	3	20	29	1600	-0.075	50	1
1N5226B	3.3	20	28	1600	-0.070	25	1
1N5227B	3.6	20	24	1700	-0.065	15	1
1N5228B	3.9	20	23	1900	-0.060	10	1
1N5229B	4.3	20	22	2000	+0.055	5	1
1N5230B	4.7	20	19	1900	+0.030	5	2

Part Number	Nominal Zener voltage	Test current	Maximum dynamic impedance	Maximum dynamic impedance	Temperature Typical Coefficient	Reverse leakage current	
	at I_{ZT} , V_Z	I_{ZT}	Z_{ZT} at I_{ZT}	Z_{ZK} at $I_{ZK}=0.25mA$	at I_{ZT}	I_R	V_R
	V	mA	Ω	Ω	α (%/K)	μA	V
1N5231B	5.1	20	17	1600	+ 0.030	5	2
1N5232B	5.6	20	11	1600	+ 0.038	5	3
1N5233B	6	20	7	1600	+ 0.038	5	3.5
1N5234B	6.2	20	7	1000	+ 0.045	5	4
1N5235B	6.8	20	5	750	+ 0.050	3	5
1N5236B	7.5	20	6	500	+ 0.058	3	6
1N5237B	8.2	20	8	500	+ 0.062	3	6.5
1N5238B	8.7	20	8	600	+ 0.065	3	6.5
1N5239B	9.1	20	10	600	+ 0.068	3	7
1N5240B	10	20	17	600	+ 0.075	3	8
1N5241B	11	20	22	600	+ 0.076	2	8.4
1N5242B	12	20	30	600	+ 0.077	1	9.1
1N5243B	13	9.5	13	600	+ 0.079	0.5	9.9
1N5244B	14	9	15	600	+ 0.082	0.1	10
1N5245B	15	8.5	16	600	+ 0.082	0.1	11
1N5246B	16	7.8	17	600	+ 0.083	0.1	12
1N5247B	17	7.4	19	600	+ 0.084	0.1	13
1N5248B	18	7	21	600	+ 0.085	0.1	14
1N5249B	19	6.6	23	600	+ 0.086	0.1	14
1N5250B	20	6.2	25	600	+ 0.086	0.1	15
1N5251B	22	5.6	29	600	+ 0.087	0.1	17
1N5252B	24	5.2	33	600	+ 0.088	0.1	18
1N5253B	25	5	35	600	+ 0.089	0.1	19
1N5254B	27	4.6	41	600	+ 0.090	0.1	21
1N5255B	28	4.5	44	600	+ 0.091	0.1	21
1N5256B	30	4.2	49	600	+ 0.091	0.1	23
1N5257B	33	3.8	58	700	+ 0.092	0.1	25
1N5258B	36	3.4	70	700	+ 0.093	0.1	27
1N5259B	39	3.2	80	800	+ 0.094	0.1	30
1N5260B	43	3	93	900	+ 0.095	0.1	33
1N5261B	47	2.7	105	1000	+ 0.095	0.1	36
1N5262B	51	2.5	125	1100	+ 0.096	0.1	39
1N5263B	56	2.2	150	1300	+ 0.096	0.1	43
1N5264B	60	2.1	170	1400	+ 0.097	0.1	46
1N5265B	62	2	185	1400	+ 0.097	0.1	47
1N5266B	68	1.8	230	1600	+ 0.097	0.1	52
1N5267B	75	1.7	270	1700	+ 0.098	0.1	56

NOTE: • Based on dc-measurement at the thermal equilibrium; lead length = 9.5mm, thermal resistance of heat sink = 30°C/W
 • Suffix B indicates Zener voltage tolerance $\pm 5\%$
 * For 2% Zener Voltage Tolerance use suffix C

FIG1: Total Power Dissipation vs. Ambient Temperature

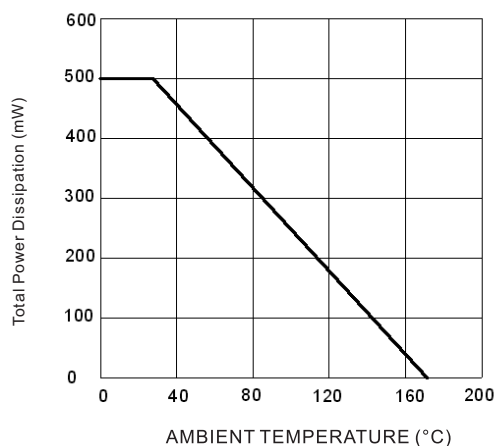
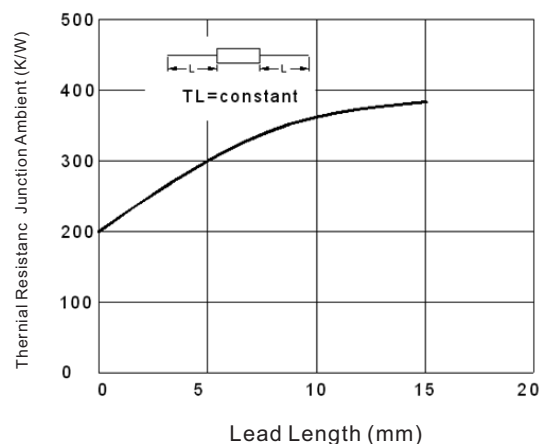


FIG2: Thermal Resistance VS. Lead Length



ELECTRICAL CHARACTERISTICS CURVES

FIG3: Typical Change of Working Voltage under Operating Conditions at $T_{amb}=25^{\circ}\text{C}$

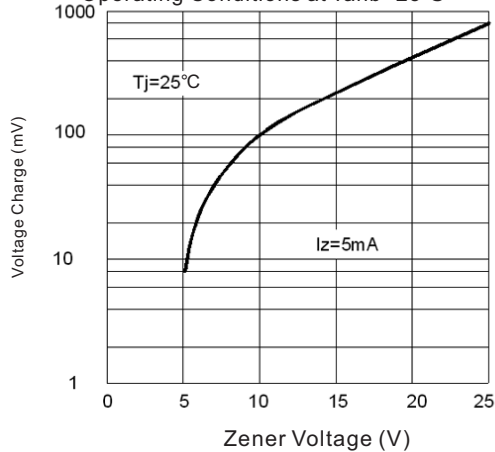


FIG4: Typical Change of Working Voltage vs. Junction Temperature

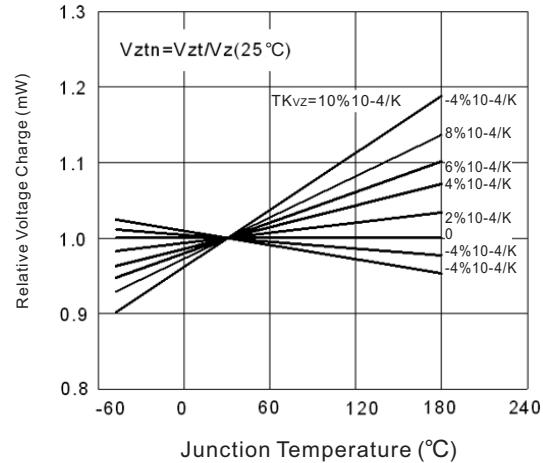


FIG5: Temperature Coefficient of V_z VS. Z-voltage

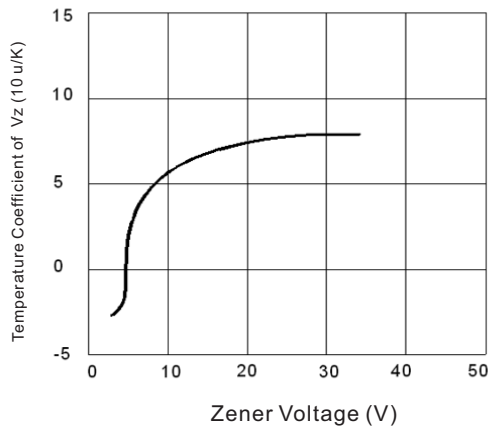


FIG6: Forward Current VS. Forward Voltage

