

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

1N5221B THRU 1N5261B

TECHNICAL SPECIFICATIONS OF GLASS SILICON ZENER DIODES

FEATURES

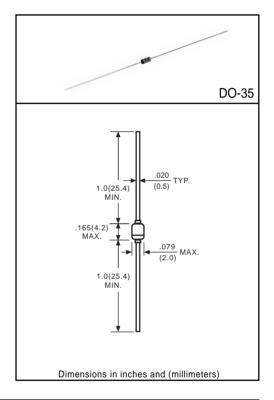
- * Voltage Range:2.4V to 47V
- * Double slug type construction

MECHANICAL DATA

- * Case: Glass sealed case Micro Melf
- * Terminals: Solder plated, solderable per
 - MIL-STD-750, Method 2026 guaranteed
- * Polarity: Color band denotes cathode end
- * Mounting position: Any
- * Weight: 0.05 grams Approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



	SYMBOL	VALUE	UNITS
Zener Current see Table "Characterisitics"			
Power Dissipation at Tamb=25°C	Ptot	500 ⁽¹⁾	mW
Junction Temperature	Tj	175	°C
Storage Temperature Range	Tstg	-55 to + 175	°C
			K/mW
Thermal Resistance		-	Тур.
Junction to Ambient Air	RthA	-	Min.
		0.3 ⁽¹⁾	Max.
			Volts
Forward Voltage at IF=100mA		-	Тур.
	VF	-	Min.
		1	Max.
1)Valid Provided that leads are kept at ambient tempe	erature at a distance of 10 mm from	case.	

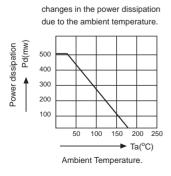
NOTE: Suffix "B" indicates Zener Voltage Tolerance ± 5%

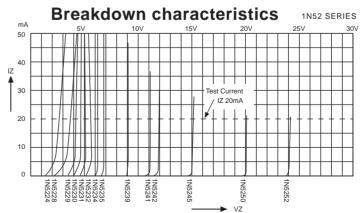
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RATING AND CHARACTERISTIC CURVES (1N5221B THRU 1N5261B)

TYPE	Nominal Zener	Zener Test		m Zener		Maximum Reverse Leakage Current	
	Voltage Vz@l _{ZT}	Current I _{ZT}			l _{ZK}	I _{R @} V _R	
	_		Z _{ZT@} I _{ZT}	Z _{ZK} @I _{ZK}			
	Volts	mA	Ohms	Ohms	mA	μΑ	Volts
1N5221B	2.4	20	30	1200	0.25	100	1.0
1N5222B	2.5	20	30	1250	0.25	100	1.0
1N5223B	2.7	20	30	1300	0.25	75	1.0
1N5224B	2.8	20	30	1400	0.25	75	1.0
1N5225B	3.0	20	30	1600	0.25	50	1.0
1N5226B	3.3	20	28	1600	0.25	25	1.0
1N5227B	3.6	20	24	1700	0.25	15	1.0
1N5228B	3.9	20	23	1900	0.25	10	1.0
1N5229B	4.3	20	22	2000	0.25	5	1.0
1N5230B	4.7	20	19	1900	0.25	5	2.0
1N5231B	5.1	20	17	1600	0.25	5	2.0
1N5232B	5.6	20	11	1600	0.25	5	3.0
1N5233B	6.0	20	9	1600	0.25	5	3.5
1N5234B	6.2	20	7	1000	0.25	5	4.0
1N5235B	6.8	20	5	750	0.25	3	5.0
1N5236B	7.5	20	6	500	0.25	3	6.0
1N5237B	8.2	20	8	500	0.25	3	6.0
1N5238B	8.7	20	9	600	0.25	3	6.5
1N5239B	9.1	20	10	600	0.25	3	6.5
1N5240B	10	20	17	600	0.25	3	8.0
1N5241B	11	20	22	600	0.25	3	8.4
1N5242B	12	20	30	600	0.25	2	9.1
1N5243B	13	9.5	13	600	0.25	1	9.9
1N5244B	14	9.0	14	600	0.25	0.5	10
1N5245B	15	8.5	16	600	0.25	0.1	11
1N5246B	16	7.8	17	600	0.25	0.1	12
1N5247B	17	7.4	19	600	0.25	0.1	13
1N5248B	18	7.0	21	600	0.25	0.1	14
1N5249B	19	6.6	23	600	0.25	0.1	14
1N5250B	20	6.2	25	600	0.25	0.1	15
1N5251B	22	5.6	29	600	0.25	0.1	17
1N5252B	24	5.2	33	600	0.25	0.1	18
1N5253B	25	5.0	36	600	0.25	0.1	19
1N5254B	27	4.6	41	600	0.25	0.1	21
1N5255B	28	4.5	44	600	0.25	0.1	21
1N5256B	30	4.2	49	600	0.25	0.1	23
1N5257B	33	3.8	58	700	0.25	0.1	25
1N5258B	36	3.4	70	700	0.25	0.1	27
1N5259B	39	3.2	80	800	0.25	0.1	30
1N5260B	43	3.0	93	900	0.25	0.1	33
1N5261B	47	2.7	150	1000	0.25	0.1	36

NOTE: Standard Zener Voltage Tolerance ± 5%





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