

3459325 FAGOR ELECTRONICS



98D 00237 D  
 1N5345 ..... 1N5364  
 T-11-15

**5 W Zener Diodes**

<p><b>Dimensions in mm. (inches)</b></p> <p><b>DO-27A (Plastic)</b></p> <p><b>Mounting instructions</b></p> <ol style="list-style-type: none"> <li>1. Min. distance from body to soldering point, 4 mm.</li> <li>2. Max. solder temperature, 300°C.</li> <li>3. Max. soldering time, 3,5 sec.</li> <li>4. Do not bend lead at a point closer than 3 mm. to the body.</li> </ol>	<p><b>Voltage</b> 8.7 to 33 V.</p> <p><b>Power</b> 5.0 W</p> <p>Standard Voltage Tolerance is <math>\pm 20\%</math>                  Add Suffix "A" for <math>\pm 10\%</math> Tolerance and Suffix "B" for <math>\pm 5\%</math></p> <ul style="list-style-type: none"> <li>• Diffused junction</li> <li>• The plastic material carries U/L recognition 94 V-0</li> <li>• Terminals: Axial Leads</li> <li>• Polarity: Color band denotes cathode</li> </ul>
---	--

**Maximum Ratings, according to IEC publication No. 134**

$P_{tot}$	Power dissipation at $T_{amb} = 75^\circ C$	5 W
$P_{ZSM}$	Non repetitive peak zener dissipation ( $t = 8,3\ ms$ )	180 W
$T_j$	Max. operating temperature	+ 150°C
$T_{stg}$	Storage temperature range	- 50 to + 150°C

**Electrical Characteristics at  $T_{amb} = 25^\circ C$**

$V_F$	Max. forward voltage drop at $I_F = 3.0\ A$	1,2 V
$R_{thj-a}$	Max. thermal resistance at: 10 mm. lead length	20°C/W

3459325 FAGOR ELECTRONICS

98D 00238 D



T-11-15

IN5345

Type	Nominal Zener Voltage $V_z$ at $I_{zT}$	Test Current $I_{zT}$	Maximum Zener Impedance for A & B Suffix only			Maximum Reverse Leakage Current Test Voltage Suffix A & non Suffix Suffix B			Max Surge Current 8.3ms. $I_{zS}$	Maximum Regulator Current $I_{zM}$
	(V)	(mA)	$Z_{zT}$ at $I_{zT}$ ( $\Omega$ )	$Z_{zK}$ at $I_{zK}$ ( $\Omega$ )	$I_{zK}$ (mA)	$I_r$ ( $\mu$ A)	(V)	(V)	(A)	(mA)
1N5345B	8.7	150	2.0	200	1	10.0	6.3	6.6	9.5	545
1N5346B	9.1	150	2.0	150	1	7.5	6.6	6.9	9.2	520
1N5347B	10	125	2.0	125	1	6.0	7.2	7.6	8.6	475
1N5348B	11	125	2.5	125	1	5.0	8.0	8.4	8.0	430
1N5349B	12	100	2.5	125	1	2.0	8.6	9.1	7.5	395
1N5350B	13	100	2.5	100	1	1.0	9.4	9.9	7.0	365
1N5351B	14	100	2.5	75	1	1.0	10.1	10.6	6.7	340
1N5352B	15	75	2.5	75	1	1.0	10.8	11.5	6.3	315
1N5353B	16	75	2.5	75	1	1.0	11.5	12.2	6.0	295
1N5354B	17	70	2.5	75	1	0.5	12.2	12.9	5.8	280
1N5355B	18	65	2.5	75	1	0.5	13.0	13.7	5.5	264
1N5356B	19	65	3.0	75	1	0.5	13.7	14.4	5.3	250
1N5357B	20	65	3.0	75	1	0.5	14.4	15.2	5.1	237
1N5358B	22	50	3.5	75	1	0.5	15.8	16.7	4.7	216
1N5359B	24	50	3.5	100	1	0.5	17.3	18.2	4.4	198
1N5360B	25	50	4.0	110	1	0.5	18.0	19.0	4.3	190
1N5361B	27	50	5.0	120	1	0.5	19.4	20.6	4.1	176
1N5362B	28	50	6.0	130	1	0.5	20.1	21.2	3.9	170
1N5363B	30	40	8.0	140	1	0.5	21.6	22.8	3.7	158
1N5364B	33	40	10.0	150	1	0.5	23.8	25.1	3.5	144
1N5365B	36	30	11.0	160	1	0.5	25.9	27.4	—	132
1N5366B	39	30	14.0	170	1	0.5	28.1	29.7	3.1	122
1N5367B	43	30	20.0	190	1	0.5	31.0	32.7	2.8	110
1N5368B	47	25	25.0	210	1	0.5	33.8	35.8	2.7	100
1N5369B	51	25	27.0	230	1	0.5	36.7	38.8	2.5	93
1N5370B	56	20	35.0	280	1	0.5	40.3	42.6	2.3	86
1N5371B	60	20	40.0	350	1	0.5	43.0	45.5	2.2	79
1N5372B	62	20	42.0	400	1	0.5	44.6	47.1	2.1	76
1N5373B	68	20	44.0	500	1	0.5	49.0	51.7	2.0	70
1N5374B	75	20	45.0	620	1	0.5	54.0	56.0	1.9	63
1N5375B	82	15	65.0	720	1	0.5	59.0	62.2	1.8	58
1N5376B	87	15	75.0	760	1	0.5	63.0	66.0	1.7	54.5
1N5377B	91	15	75.0	760	1	0.5	65.5	69.2	1.6	52.5
1N5378B	100	12	90.0	800	1	0.5	72.0	76.0	1.5	47.5
1N5379B	110	12	125.0	1000	1	0.5	79.2	83.6	1.4	43
1N5380B	120	10	170.0	1150	1	0.5	86.4	91.2	1.3	39.5
1N5381B	130	10	190.0	1250	1	0.5	93.6	98.8	1.2	36.5
1N5382B	140	8	230.0	1500	1	0.5	101.0	106.0	1.2	34
1N5383B	160	8	330.0	1600	1	0.5	108.0	114.0	1.1	31.6
1N5384B	160	8	350.0	1650	1	0.5	115.0	122.0	1.1	29.4
1N5385B	170	8	380.0	1750	1	0.5	122.0	129.0	1.0	28
1N5386B	180	8	430.0	1750	1	0.5	130.0	137.0	1.0	26.4
1N5387B	190	6	450.0	1850	1	0.5	137.0	144.0	0.9	25
1N5388B	200	6	480.0	1850	1	0.5	144.0	152.0	0.9	23.6

Standard Voltage Tolerance is  $\pm 5\%$ .  
Other Tolerance, Non-Standard Zener Voltages Upon Request.

3459325 FAGOR ELECTRONICS

98D 00239 D



T-11-15

1N5345

Characteristic Curves

