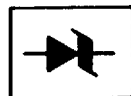


# Zener Diodes

Note: 10 watt and 50 watt Zeners listed have anode connected to stud. Add suffix letter "K" to the ECG number for cathode connected to stud. The ECG type numbers shown have a standard tolerance for the Zener voltage of +5%.

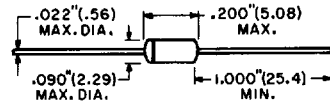


Voltage (See Note for Tolerance)	Axial Lead			Stud Mount	
	Fig. No. Z3A	Z18	Z19	DO-4	DO-5
				10 Watt	50 Watt
2.4	ECG5000A	---	---	---	---
2.5	ECG5001A	---	---	---	---
2.7	ECG5002A	ECG5063A	---	---	---
2.8	ECG5003A	---	---	---	---
3.0	ECG5004A	ECG5065A	---	---	---
3.3	ECG5005A	ECG5066A	ECG5111A	ECG5172A	---
3.6	ECG5006A	ECG134A	ECG5112A	ECG5173A	---
3.9	ECG5007A	ECG5067A	ECG5113A	ECG5174A	ECG5240A
4.3	ECG5008A	ECG5068A	ECG5114A	ECG5175A	ECG5241A
4.7	ECG5009A	ECG5069A	ECG5115A	ECG5176A	ECG5242A
5.1	ECG5010A	ECG135A	ECG5116A	ECG5177A	ECG5243A
5.6	ECG5011A	ECG136A	ECG5117A	ECG5178A	ECG5244A
6.0	ECG5012A	ECG5070A	ECG5118A	ECG5179A	ECG5245A
6.2	ECG5013A	ECG137A	ECG5119A	ECG5180A	ECG5246A
6.8	ECG5014A	ECG5071A	ECG5120A	ECG5181A	ECG5247A
7.5	ECG5015A	ECG138A	ECG5121A	ECG5182A	ECG5248A
8.2	ECG5016A	ECG5072A	ECG5122A	ECG5183A	ECG5249A
8.7	ECG5017A	ECG5073A	ECG5123A	ECG5184A	ECG5250A
9.1	ECG5018A	ECG139A	ECG5124A	ECG5185A	ECG5251A
10.0	ECG5019A	ECG140A	ECG5125A	ECG5186A	ECG5252A
11.0	ECG5020A	ECG5074A	ECG5126A	ECG5187A	ECG5253A
11.5	---	ECG141A	---	---	---
12.0	ECG5021A	ECG142A	ECG5127A	ECG5188A	ECG5254A
13.0	ECG5022A	ECG143A	ECG5128A	ECG5189A	ECG5255A
14.0	ECG5023A	ECG144A	ECG5129A	ECG5190A	ECG5256A
15.0	ECG5024A	ECG145A	ECG5130A	ECG5191A	ECG5257A
16.0	ECG5025A	ECG5075A	ECG5131A	ECG5192A	ECG5258A
17.0	ECG5026A	ECG5076A	ECG5132A	ECG5193A	ECG5259A
18.0	ECG5027A	ECG5077A	ECG5133A	ECG5194A	ECG5260A
19.0	ECG5028A	ECG5078A	ECG5134A	ECG5195A	ECG5261A
20.0	ECG5029A	ECG5079A	ECG5135A	ECG5196A	ECG5262A
22.0	ECG5030A	ECG5080A	ECG5136A	ECG5197A	ECG5263A
24.0	ECG5031A	ECG5081A	ECG5137A	ECG5198A	ECG5264A
25.0	ECG5032A	ECG5082A	ECG5138A	ECG5199A	ECG5265A
27.0	ECG5033A	ECG146A	ECG5139A	ECG5200A	ECG5266A
28.0	ECG5034A	ECG5083A	ECG5140A	ECG5201A	ECG5267A
30.0	ECG5035A	ECG5084A	ECG5141A	ECG5202A	ECG5268A
33.0	ECG5036A	ECG147A	ECG5142A	ECG5203A	ECG5269A
36.0	ECG5037A	ECG5085A	ECG5143A	ECG5204A	ECG5270A
39.0	ECG5038A	ECG5086A	ECG5144A	ECG5205A	ECG5271A
43.0	ECG5039A	ECG5087A	ECG5145A	ECG5206A	ECG5272A
45.0	---	---	---	ECG5207A	ECG5273A
47.0	ECG5040A	ECG5088A	ECG5146A	ECG5208A	ECG5274A
50.0	---	---	---	ECG5209A	ECG5275A
51.0	ECG5041A	ECG5089A	ECG5147A	ECG5210A	ECG5276A
52.0	---	---	---	ECG5211A	ECG5277A
55.0	---	ECG148A	---	---	---
56.0	ECG5042A	ECG5090A	ECG5148A	ECG5212A	ECG5278A
60.0	ECG5043A	ECG5091A	ECG5149A	ECG5213A	ECG5279A
62.0	ECG5044A	ECG149A	ECG5150A	ECG5214A	ECG5280A
68.0	ECG5045A	ECG5092A	ECG5151A	ECG5215A	ECG5281A
75.0	ECG5046A	ECG5093A	ECG5152A	ECG5216A	ECG5282A
82.0	ECG5047A	ECG150A	ECG5153A	ECG5217A	ECG5283A
87.0	ECG5048A	ECG5094A	ECG5154A	ECG5218A	---
91.0	ECG5049A	ECG5095A	ECG5155A	ECG5219A	ECG5284A
100.0	ECG5050A	ECG5096A	ECG5156A	ECG5220A	ECG5285A
105.0	---	---	---	ECG5221A	ECG5286A
110.0	ECG5051A	ECG151A	ECG5157A	ECG5222A	ECG5287A
120.0	ECG5052A	ECG5097A	ECG5158A	ECG5223A	ECG5288A
123.0*	ECG5107T2	---	---	---	---
130.0	ECG5053A	ECG5098A	ECG5159A	ECG5224A	ECG5289A
140.0	ECG5054A	ECG5099A	ECG5160A	ECG5225A	ECG5290A
150.0	ECG5055A	ECG5100A	ECG5161A	ECG5226A	ECG5291A
160.0	ECG5056A	ECG5101A	ECG5162A	ECG5227A	ECG5292A
170.0	ECG5057A	ECG5102A	ECG5163A	ECG5228A	---
175.0	---	---	---	ECG5229A	ECG5293A
180.0	ECG5058A	ECG5103A	ECG5164A	ECG5230A	ECG5294A
190.0	ECG5059A	ECG5104A	ECG5165A	ECG5231A	ECG5295A
200.0	ECG5060A	ECG5105A	ECG5166A	ECG5232A	ECG5296A

## 1% Tolerance - 1/2 Watt

ECG Type	Nominal Zener Voltage @ TA = 25°C VZ @ IZT = 20 mA*
ECG5010T1	5.1
ECG5011T1	5.6
ECG5013T1	6.2
ECG5019T1	10
ECG5021T1	12

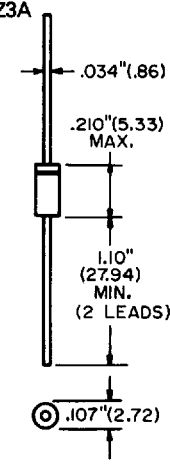
Fig. Z4



COLOR BAND DENOTES CATHODE

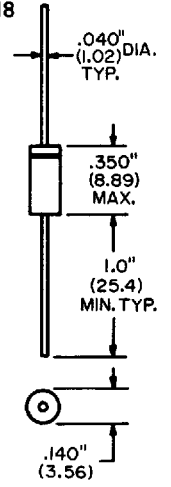
\* IZT = Test Current

Fig. Z3A



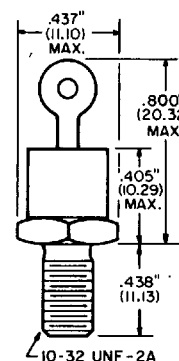
COLOR BAND DENOTES CATHODE

Fig. Z18



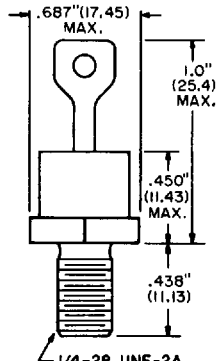
COLOR BAND DENOTES CATHODE

Fig. Z19



DO-4 - Torque To 15 in.-lbs. min, 20 in.-lbs. max

Fig. Z20



DO-5 - Torque To 25 in.-lbs. min, 30 in.-lbs. max.

\* 2% Tolerance

† 1/2 W and 1 W, 5% Tolerance Zeners are supplied 2 Per Pkg.