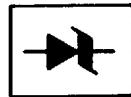


Zener Diodes

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%.

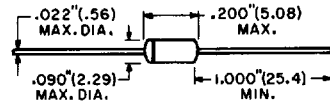


| Voltage (See Note for Tolerance) | Axial Lead | | | Stud Mount | |
|-------------------------------------|--------------|----------|----------|------------|----------|
| | Fig. No. Z3A | | Z18 | DO-4 | DO-5 |
| | ½ Watt† | 1 Watt† | 5 Watt | Z19 | Z20 |
| 2.4 | ECG5000A | --- | --- | --- | --- |
| 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 - ½ 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 |

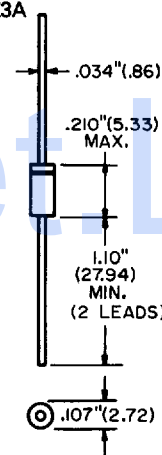
Fig. Z4



COLOR BAND DENOTES CATHODE

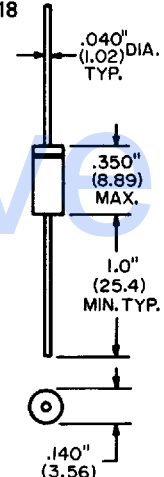
* IZT = Test Current

Fig. Z3A



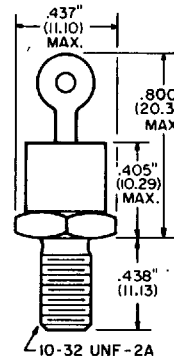
COLOR BAND DENOTES CATHODE

Fig. Z18



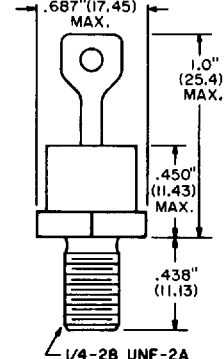
COLOR BAND DENOTES CATHODE

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

† ½ W and 1 W, 5% Tolerance Zeners are supplied 2 Per Pkg.