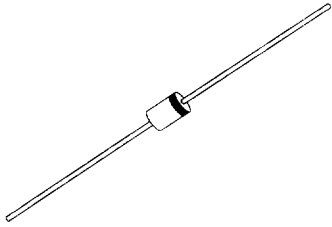


Zener Diodes

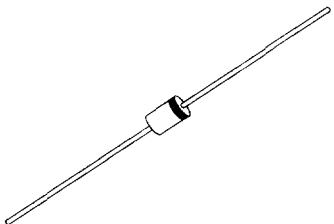
| POWER | 250 mW | | | 400 mW | |
|---------------|---|---------------------|-----------|---------------|----------------------|
| CASE |  DO-35 | | | | |
| ZENER VOLTAGE | GENERAL PURPOSE | LOW NOISE LOW LEVEL | LOW LEVEL | LOW IMPEDANCE | LOW VOLTAGE AVALANCE |
| 1.8 | | 1N4614 | 1N4678 | | |
| 2.0 | | 1N4615 | 1N4679 | | |
| 2.2 | | 1N4616 | 1N4680 | | |
| 2.4 | | 1N4617 | 1N4681 | | |
| 2.7 | 1N702A | 1N4618 | 1N4682 | | |
| 3.0 | | 1N4619 | 1N4683 | | |
| 3.3 | | 1N4620 | 1N4684 | 1N3506 | |
| 3.6 | 1N703A | 1N4621 | 1N4685 | 1N3507 | |
| 3.9 | | 1N4622 | 1N4686 | 1N3508 | |
| 4.3 | 1N704A | 1N4623 | 1N4687 | 1N3509 | 1N6082B |
| 4.7 | | 1N4624 | 1N4688 | 1N3510 | 1N6083B |
| 5.1 | 1N705A | 1N4625 | 1N4689 | 1N3511 | 1N6084B |
| 5.6 | | 1N4626 | 1N4690 | 1N3512 | 1N6085B |
| 6.0 | 1N706A | 1N4627 | | | |
| 6.2 | | 1N4628 | 1N4691 | 1N3513 | 1N6086B |
| 6.8 | | 1N4099 | 1N4692 | 1N3514 | 1N6087B |
| 7.1 | 1N707A | | | | |
| 7.5 | | 1N4100 | 1N4693 | 1N3515 | 1N6088B |
| 8.2 | | 1N4101 | 1N4694 | 1N3516 | 1N6089B |
| 8.7 | | 1N4102 | 1N4695 | | |
| 9.1 | | 1N4103 | 1N4696 | 1N3517 | 1N6090B |
| 10 | | 1N4104 | 1N4697 | 1N3518 | 1N6091B |
| 11 | | 1N4105 | 1N4698 | 1N3519 | |
| 12 | | 1N4106 | 1N4699 | 1N3520 | |
| 13 | | 1N4107 | 1N4700 | 1N3521 | |
| 14 | | 1N4108 | 1N4701 | | |
| 15 | | 1N4109 | 1N4702 | 1N3522 | |
| 16 | | 1N4110 | 1N4703 | 1N3523 | |
| 17 | | 1N4111 | 1N4704 | | |
| 18 | | 1N4112 | 1N4705 | 1N3524 | |
| 19 | | 1N4113 | 1N4706 | | |
| 20 | | 1N4114 | 1N4707 | 1N3525 | |
| 22 | | 1N4115 | 1N4708 | 1N3526 | |
| 24 | | 1N4116 | 1N4709 | 1N3527 | |

For complete specifications, please consult factory.

Special selections and tight tolerances available.

DO-35 devices are also available in Radial Tape and Reel (Euroform). See page 236.

Zener Diodes (Continued)

| POWER | 250 mW | | 400 mW | | |
|---------------|---|-----------|---------------|--|--|
| CASE |  DO-35 | | | | |
| ZENER VOLTAGE | LOW NOISE LOW LEVEL | LOW LEVEL | LOW IMPEDANCE | | |
| 25 | 1N4117 | 1N4710 | | | |
| 27 | 1N4118 | 1N4711 | 1N3528 | | |
| 28 | 1N4119 | 1N4712 | | | |
| 30 | 1N4120 | 1N4713 | 1N3529 | | |
| 33 | 1N4121 | 1N4714 | 1N3530 | | |
| 36 | 1N4122 | 1N4715 | 1N3531 | | |
| 39 | 1N4123 | 1N4716 | 1N3532 | | |
| 43 | 1N4124 | 1N4717 | 1N3533 | | |
| 47 | 1N4125 | | 1N3534 | | |
| 51 | 1N4126 | | | | |
| 56 | 1N4127 | | | | |
| 60 | 1N4128* | | | | |
| 62 | 1N4129* | | | | |
| 68 | 1N4130* | | | | |
| 75 | 1N4131* | | | | |
| 82 | 1N4132* | | | | |
| 87 | 1N4133* | | | | |
| 91 | 1N4134* | | | | |
| 100 | 1N4135* | | | | |

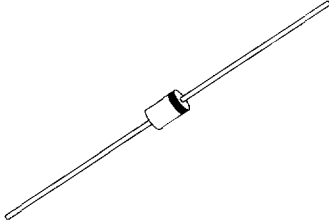
For complete specifications, please consult factory.

Special selections and tight tolerances available.

* Not recommended for new designs.

DO-35 devices are also available in Radial Tape and Reel (Euroform). See page 236.

Zener Diodes (Continued)

| POWER | 500 mW | | | | | |
|---------------|---|-------------------|-------------------|-----------------|-----------------|-------------------|
| CASE |  DO-35 | | | | | |
| ZENER VOLTAGE | INDUSTRY STANDARD | INDUSTRY STANDARD | INDUSTRY STANDARD | ULTRA LOW NOISE | GENERAL PURPOSE | INDUSTRY STANDARD |
| 2.4 | | 1N4370A | 1N5221B | | | 1N5985B |
| 2.5 | | | 1N5222B | | | |
| 2.7 | | 1N4371A | 1N5223B | | | 1N5986B |
| 2.8 | | | 1N5224B | | | |
| 3.0 | | 1N4372A | 1N5225B | | | 1N5987B |
| 3.3 | | 1N746A | 1N5226B | 1N5518B | | 1N5988B |
| 3.6 | | 1N747A | 1N5227B | 1N5519B | | 1N5989B |
| 3.9 | | 1N748A | 1N5228B | 1N5520B | | 1N5990B |
| 4.3 | | 1N749A | 1N5229B | 1N5521B | | 1N5991B |
| 4.7 | | 1N750A | 1N5230B | 1N5522B | 1N5728B | 1N5992B |
| 5.1 | | 1N751A | 1N5231B | 1N5523B | 1N5729B | 1N5993B |
| 5.6 | | 1N752A | 1N5232B | 1N5524B | 1N5730B | 1N5994B |
| 6.0 | | | 1N5233B | | | |
| 6.2 | | 1N753A | 1N5234B | 1N5525B | 1N5731B | 1N5995B |
| 6.8 | 1N957B | 1N754A | 1N5235B | 1N5526B | 1N5732B | 1N5996B |
| 7.5 | 1N958B | 1N755A | 1N5236B | 1N5527B | 1N5733B | 1N5997B |
| 8.2 | 1N959B | 1N756A | 1N5237B | 1N5528B | 1N5734B | 1N5998B |
| 8.7 | | | 1N5238B | | | |
| 9.1 | 1N960B | 1N757A | 1N5239B | 1N5529B | 1N5735B | 1N5999B |
| 10 | 1N961B | 1N758A | 1N5240B | 1N5530B | 1N5736B | 1N6000B |
| 11 | 1N962B | | 1N5241B | 1N5531B | 1N5737B | 1N6001B |
| 12 | 1N963B | 1N759A | 1N5242B | 1N5532B | 1N5738B | 1N6002B |
| 13 | 1N964B | | 1N5243B | 1N5533B | 1N5739B | 1N6003B |
| 14 | | | 1N5244B | 1N5534B | | |
| 15 | 1N965B | | 1N5245B | 1N5535B | 1N5740B | 1N6004B |
| 16 | 1N966B | | 1N5246B | 1N5536B | 1N5741B | 1N6005B |
| 17 | | | 1N5247B | 1N5537B | | |
| 18 | 1N967B | | 1N5248B | 1N5538B | 1N5742B | 1N6006B |
| 19 | | | 1N5249B | 1N5539B | | |
| 20 | 1N968B | | 1N5250B | 1N5540B | 1N5743B | 1N6007B |
| 22 | 1N969B | | 1N5251B | 1N5541B | 1N5744B | 1N6008B |
| 24 | 1N970B | | 1N5252B | 1N5542B | 1N5745B | 1N6009B |

For complete specifications, please consult factory.

Special selections and tight tolerances available.

DO-35 devices are also available in Radial Tape and Reel (Euroform). See page 236.

Zener Diodes (Continued)

| POWER | 500 mW | | | | | |
|---------------|-------------------|--|-------------------|-----------------|-----------------|-------------------|
| CASE | DO-35 | | | | | |
| ZENER VOLTAGE | INDUSTRY STANDARD | | INDUSTRY STANDARD | ULTRA LOW NOISE | GENERAL PURPOSE | INDUSTRY STANDARD |
| 25 | | | 1N5253B | 1N5543B | | |
| 27 | 1N971B | | 1N5254B | | 1N5746B | 1N6010B |
| 28 | | | 1N5255B | 1N5544B | | |
| 30 | 1N972B | | 1N5256B | 1N5545B | 1N5747B | 1N6011B |
| 33 | 1N973B | | 1N5257B | 1N5546B | 1N5748B | 1N6012B |
| 36 | 1N974B | | 1N5258B | | 1N5749B | 1N6013B |
| 39 | 1N975B | | 1N5259B | | 1N5750B | 1N6014B |
| 43 | 1N976B | | 1N5260B | | 1N5751B | 1N6015B |
| 47 | 1N977B | | 1N5261B | | 1N5752B | 1N6016B |
| 51 | 1N978B | | 1N5262B | | 1N5753B | 1N6017B |
| 56 | 1N979B | | 1N5263B | | 1N5754B | 1N6018B |
| 60 | | | 1N5264B* | | | |
| 62 | 1N980B* | | 1N5265B* | | 1N5755B* | 1N6019B* |
| 68 | 1N981B* | | 1N5266B* | | 1N5756B* | 1N6020B* |
| 75 | 1N982B* | | 1N5267B* | | 1N5757B* | 1N6021B* |
| 82 | 1N983B* | | 1N5268B* | | | 1N6022B* |
| 87 | | | 1N5269B* | | | |
| 91 | 1N984B* | | 1N5270B* | | | 1N6023B* |
| 100 | 1N985B* | | 1N5271B* | | | 1N6024B* |
| 110 | 1N986B* | | 1N5272B* | | | 1N6025B* |
| 120 | 1N987B* | | 1N5273B* | | | 1N6026B* |
| 130 | 1N988B* | | 1N5274B* | | | 1N6027B* |
| 140 | | | 1N5275B* | | | |
| 150 | 1N989B* | | 1N5276B* | | | 1N6028B* |
| 160 | 1N990B* | | 1N5277B* | | | 1N6029B* |
| 170 | | | 1N5278B* | | | |
| 180 | 1N991B* | | 1N5279B* | | | 1N6030B* |
| 190 | | | 1N5280B* | | | |
| 200 | 1N992B* | | 1N5281B* | | | 1N6031B* |

For complete specifications, please consult factory.

Special selections and tight tolerances available.

* Not recommended for new designs.

DO-35 devices are also available in Radial Tape and Reel (Euroform). See page 236.

Zener Diodes (Continued)

| POWER | 1.0 WATT | | | | |
|---------------|-----------------|-----------------|-------------------|-----------------|--|
| CASE | DO-41 | | | | |
| ZENER VOLTAGE | GENERAL PURPOSE | GENERAL PURPOSE | INDUSTRY STANDARD | GENERAL PURPOSE | |
| 3.3 | | | 1N4728A | | |
| 3.6 | | | 1N4729A | | |
| 3.9 | | | 1N4730A | | |
| 4.3 | | | 1N4731A | | |
| 4.7 | | | 1N4732A | | |
| 5.1 | | | 1N4733A | | |
| 5.6 | | | 1N4734A | | |
| 6.2 | | | 1N4735A | | |
| 6.8 | 1N3675B | 1N4158B | 1N4736A | 1N5559B | |
| 7.5 | 1N3676B | 1N4159B | 1N4737A | 1N5560B | |
| 8.2 | 1N3677B | 1N4160B | 1N4738A | 1N5561B | |
| 9.1 | 1N3678B | 1N4161B | 1N4739A | 1N5562B | |
| 10 | 1N3679B | 1N4162B | 1N4740A | 1N5563B | |
| 11 | 1N3680B | 1N4163B | 1N4741A | 1N5564B | |
| 12 | 1N3681B | 1N4164B | 1N4742A | 1N5565B | |
| 13 | 1N3682B | 1N4165B | 1N4743A | 1N5566B | |
| 15 | 1N3683B | 1N4166B | 1N4744A | 1N5567B | |
| 16 | 1N3684B | 1N4167B | 1N4745A | 1N5568B | |
| 18 | 1N3685B | 1N4168B | 1N4746A | 1N5569B | |
| 20 | 1N3686B | 1N4169B | 1N4747A | 1N5570B | |
| 22 | 1N3687B | 1N4170B | 1N4748A | 1N5571B | |
| 24 | 1N3688B | 1N4171B | 1N4749A | 1N5572B | |
| 27 | 1N3689B | 1N4172B | 1N4750A | 1N5573B | |
| 30 | 1N3690B | 1N4173B | 1N4751A | 1N5574B | |

For complete specifications, please consult factory.

Zener Diodes (Continued)

| POWER | 1.0 WATT | | | | |
|---------------|-----------------|-----------------|-------------------|-----------------|--------------|
| CASE | DO-41 | | | | |
| ZENER VOLTAGE | GENERAL PURPOSE | GENERAL PURPOSE | INDUSTRY STANDARD | GENERAL PURPOSE | HIGH VOLTAGE |
| 33 | 1N3691B | 1N4174B | 1N4752A | 1N5575B | |
| 36 | 1N3692B | 1N4175B | 1N4753A | 1N5576B | |
| 39 | 1N3693B | 1N4176B | 1N4754A | 1N5577B | |
| 43 | 1N3694B | 1N4177B | 1N4755A | 1N5578B | |
| 47 | 1N3695B | 1N4175B | 1N4756A | 1N5579B | |
| 51 | 1N3696B | 1N4179B | 1N4757A | 1N5580B | |
| 56 | 1N3697B | 1N4180B | 1N4758A | 1N5581B | |
| 62 | 1N3698B* | 1N4181B* | 1N4759A* | 1N5582B* | |
| 68 | 1N3699B* | 1N4182B* | 1N4760A* | 1N5583B* | |
| 75 | 1N3700B* | 1N4183B* | 1N4761A* | 1N5584B* | |
| 82 | 1N3701B* | 1N4184B* | 1N4762A* | 1N5585B* | |
| 91 | 1N3702B* | 1N4185B* | 1N4763A* | 1N5586B* | |
| 100 | 1N3703B | 1N4186B | 1N4764A | 1N5587B | C1Z100B |
| 110 | 1N3704B | 1N4187B | | 1N5588B | C1Z110B |
| 120 | 1N3705B | 1N4188B | | 1N5589B | C1Z120B |
| 130 | 1N3706B | 1N4189B | | 1N5590B | C1Z130B |
| 150 | 1N3707B | 1N4190B | | 1N5591B | C1Z150B |
| 160 | 1N3708B | 1N4191B | | 1N5592B | C1Z160B |
| 180 | 1N3709B | 1N4192B | | 1N5593B | C1Z180B |
| 200 | 1N3710B | 1N4193B | | 1N5594B | C1Z200B |
| 300 | | | | | C1Z300B |
| 330 | | | | | C1Z330B |

For complete specifications, please consult factory.

* Not recommended for new designs.

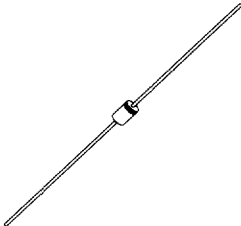
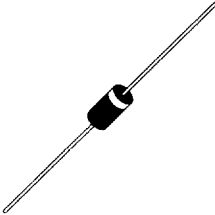
Zener Diodes (Continued)

| POWER | 1.5 WATT | | 2.0 WATT | 2.5 WATT |
|---------------|------------------|-------------------|----------|-----------------|
| CASE | DO-41 | | | AX-5W |
| ZENER VOLTAGE | HIGH PERFORMANCE | INDUSTRY STANDARD | | GENERAL PURPOSE |
| 3.3 | | 1N5913B | | 1N5008A |
| 3.6 | | 1N5914B | | 1N5009A* |
| 3.9 | | 1N5915B | | 1N5010A |
| 4.3 | | 1N5916B | | 1N5011A |
| 4.7 | | 1N5917B | | 1N5012A |
| 5.1 | | 1N5918B | | 1N5013A |
| 5.6 | | 1N5919B | | 1N5014A |
| 6.2 | 1N4460 | 1N5920B | | 1N5015A |
| 6.8 | 1N4461 | 1N5921B | | 1N5016A |
| 7.5 | 1N4462 | 1N5922B | | 1N5017A |
| 8.2 | 1N4463 | 1N5923B | | 1N5018A |
| 9.1 | 1N4464 | 1N5924B | | 1N5019A |
| 10 | 1N4465 | 1N5925B | | 1N5020A |
| 11 | 1N4466 | 1N5926B | | 1N5021A |
| 12 | 1N4467 | 1N5927B | | 1N5022A |
| 13 | 1N4468 | 1N5928B | | 1N5023A |
| 14 | | | | 1N5024A |
| 15 | 1N4469 | 1N5929B | | 1N5025A |
| 16 | 1N4470 | 1N5930B | | 1N5026A |
| 17 | | | | 1N5027A |
| 18 | 1N4471 | 1N5931B | | 1N5028A |
| 19 | | | | 1N5029A |
| 20 | 1N4472 | 1N5932B | | 1N5030A |
| 22 | 1N4473 | 1N5933B | | 1N5031A |
| 24 | 1N4474 | 1N5934B | | 1N5032A |
| 25 | | | | 1N5033A* |
| 27 | 1N4475 | 1N5935B | | 1N5034A |
| 30 | 1N4476 | 1N5936B | | 1N5035A |

For complete specifications, please consult factory.

* Not recommended for new designs.

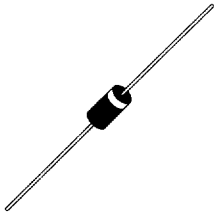
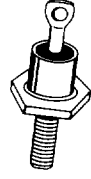
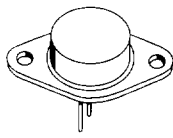
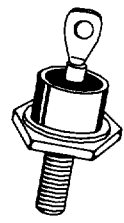
Zener Diodes (Continued)

| POWER | 1.5 WATT | | 2.0 WATT | 2.5 WATT |
|---------------|---|-------------------|--------------|---|
| CASE |  DO-41 | | |  AX-5W |
| ZENER VOLTAGE | HIGH PERFORMANCE | INDUSTRY STANDARD | HIGH VOLTAGE | GENERAL PURPOSE |
| 33 | 1N4477 | 1N5937B | | 1N5036A |
| 36 | 1N4478 | 1N5938B | | 1N5037A |
| 39 | 1N4479 | 1N5939B | | 1N5038A |
| 43 | 1N4480 | 1N5940B | | 1N5039A |
| 45 | | | | 1N5040A |
| 47 | 1N4481 | 1N5941B | | 1N5041A |
| 50 | | | | 1N5042A |
| 51 | 1N4482 | 1N5942B | | 1N5043A |
| 52 | | | | 1N5044A |
| 56 | 1N4483 | 1N5943B | | 1N5045A |
| 62 | 1N4484* | 1N5944B* | | 1N5046A |
| 68 | 1N4485* | 1N5945B* | | 1N5047A |
| 75 | 1N4486* | 1N5946B* | | 1N5048A |
| 82 | 1N4487* | 1N5947B* | | 1N5049A |
| 91 | 1N4488* | 1N5948B* | | 1N5050A |
| 100 | 1N4489 | 1N5949B | C2Z100B | 1N5051A |
| 110 | 1N4490 | 1N5950B | C2Z110B | |
| 120 | 1N4491 | 1N5951B | C2Z120B | |
| 130 | 1N4492 | 1N5952B | C2Z130B | |
| 150 | 1N4493 | 1N5953B | C2Z150B | |
| 160 | 1N4494 | 1N5954B | C2Z160B | |
| 180 | 1N4495 | 1N5955B | C2Z180B | |
| 200 | 1N4496 | 1N5956B | C2Z200B | |
| 300 | | | C2Z300B | |
| 330 | | | C2Z330B | |

For complete specifications, please consult factory.

* Not recommended for new designs.

Zener Diodes (Continued)

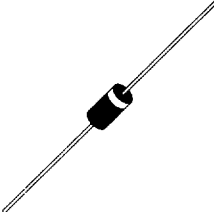
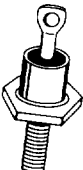
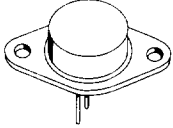
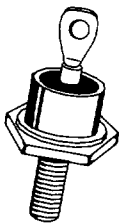
| POWER | 5.0 WATT | 10 WATT | 50 WATT | |
|----------------------|--|---|--|---|
| CASE |  AX-5W |  DO-4** |  TO-3** |  DO-5** |
| ZENER VOLTAGE | INDUSTRY STANDARD | GENERAL PURPOSE | GENERAL PURPOSE | GENERAL PURPOSE |
| 3.6 | 1N5334B* | | | |
| 3.9 | 1N5335B | | | |
| 4.3 | 1N5336B | | | |
| 4.7 | 1N5337B | | | |
| 5.1 | 1N5338B | | | |
| 5.6 | 1N5339B | | | |
| 6.0 | 1N5340B* | | | |
| 6.2 | 1N5341B | | | |
| 6.8 | 1N5342B | | | |
| 7.5 | 1N5343B | | | |
| 8.2 | 1N5344B | | | |
| 8.7 | 1N5345B* | | | |
| 9.1 | 1N5346B | | | |
| 10 | 1N5347B* | 1N2974B | 1N2808B | 1N3309B |
| 11 | 1N5348B* | 1N2975B | 1N2809B | 1N3310B |
| 12 | 1N5349B | 1N2976B | 1N2810B | 1N3311B |
| 13 | 1N5350B | 1N2977B | 1N2811B | 1N3312B |
| 14 | 1N5351B | 1N2978B | 1N2812B | 1N3313B |
| 15 | 1N5352B | 1N2979B | 1N2813B | 1N3314B |
| 16 | 1N5353B | 1N2980B | 1N2814B | 1N3315B |
| 17 | 1N5354B | 1N2981B | 1N2815B | 1N3316B |
| 18 | 1N5355B | 1N2982B | 1N2816B | 1N3317B |
| 19 | 1N5356B | 1N2983B | 1N2817B | 1N3318B |
| 20 | 1N5357B | 1N2984B | 1N2818B | 1N3319B |
| 22 | 1N5358B | 1N2985B | 1N2819B | 1N3320B |
| 24 | 1N5359B | 1N2986B | 1N2820B | 1N3321B |
| 25 | 1N5360B* | 1N2987B | 1N2821B | 1N3322B |
| 27 | 1N5361B | 1N2988B | 1N2822B | 1N3323B |
| 28 | 1N5362B | | | |

For complete specifications, please consult factory.

** Reverse polarity available. Just change "B" suffix to "RB."

* Not recommended for new designs.

Zener Diodes (Continued)

| POWER | 5.0 WATT | 10 WATT | 50 WATT | |
|----------------------|---|---|--|---|
| |  |  |  |  |
| CASE | AX-5W | DO-4** | TO-3** | DO-5** |
| ZENER VOLTAGE | INDUSTRY STANDARD | GENERAL PURPOSE | GENERAL PURPOSE | GENERAL PURPOSE |
| 30 | 1N5363B | 1N2989B | 1N2823B | 1N3324B |
| 33 | 1N5364B | 1N2990B | 1N2824B | 1N3325B |
| 36 | 1N5365B | 1N2991B | 1N2825B | 1N3326B |
| 39 | 1N5366B | 1N2992B | 1N2826B | 1N3327B |
| 43 | 1N5367B | 1N2993B | 1N2827B | 1N3328B |
| 45 | | 1N2994B | 1N2828B | 1N3329B |
| 47 | 1N5368B | 1N2995B | 1N2829B | 1N3330B |
| 50 | | 1N2996B | 1N2830B | 1N3331B |
| 51 | 1N5369B | 1N2997B | 1N2831B | 1N3332B |
| 52 | | 1N2998B | | 1N3333B |
| 56 | 1N5370B | 1N2999B | 1N2832B | 1N3334B |
| 60 | 1N5371B* | | | |
| 62 | 1N5372B | 1N3000B | 1N2833B | 1N3335B |
| 68 | 1N5373B | 1N3001B | 1N2834B | 1N3336B |
| 75 | 1N5374B | 1N3002B | 1N2835B | 1N3337B |
| 82 | 1N5375B | 1N3003B | 1N2836B | 1N3338B |
| 87 | 1N5376B* | | | |
| 91 | 1N5377B | 1N3004B | 1N2837B | 1N3339B |
| 100 | 1N5378B | 1N3005B | 1N2838B | 1N3340B |
| 105 | | 1N3006B | 1N2839B | 1N3341B |
| 110 | 1N5379B | 1N3007B | 1N2840B | 1N3342B |
| 120 | 1N5380B | 1N3008B | 1N2841B | 1N3343B |
| 130 | 1N5381B | 1N3009B | 1N2842B | 1N3344B |
| 140 | 1N5382B* | 1N3010B | | 1N3345B |
| 150 | 1N5383B | 1N3011B | 1N2843B | 1N3346B |
| 160 | 1N5384B | 1N3012B | 1N2844B | 1N3347B |
| 170 | 1N5385B* | 1N3013B | | |
| 175 | | | | 1N3348B |
| 180 | 1N5386B | 1N3014B | 1N2845B | 1N3349B |
| 190 | 1N5387B* | | | |
| 200 | 1N5388B | 1N3015B | 1N2846B | 1N3350B |

For complete specifications, please consult factory.

** Reverse polarity available. Just change "B" suffix to "RB."

* Not recommended for new designs.