

Fast Recovery Diodes - Capsule Types

WESTCODE

Fast Recovery Diodes are an essential partner to all fast switching devices. Our soft recovery diodes are available with a range of reverse recovery characteristics tailored to meet the requirements of both freewheeling and snubber applications. These devices are available with blocking voltages up to 6 kV and average currents up to 3770 A. 38 mm to 75 mm diameter silicon slices.

| Type Part No. | V _{RRM} V | I _{FAV} T _K = 55°C A | I _{FSM} 10 ms ½ sine V _R ≤ 60% V _{RRM} A | P _t A ² s | Typ. Reverse Recovery T _J = 150°C (50% Chord) | | | | V _{T0} @ T _J = 150°C V | r _T mΩ | R _{thJK} d.c. 180° sine K/W | Fig. No. | Package style Outlines on pages O-01...O-24 |
|------------------|-----------------------|---|--|------------------------------------|---|-----------------------|------------------------|-----------------------------------|---|----------------------|--|----------|--|
| | | | | | t _{rr} μs | Q _{rr} μC | @ I _{FM} A | @ -di _F /dt A/μs | | | | | |
| M0588LC400 | 4000 | 588 | 3955 | 78.2 x 10 ³ | 3.50 | 450 | 1000 | 60 | 2.320 | 1.770 | 0.033 | W4 | W4 Weight 80 g |
| M0588LC450 | 4500 | 588 | 3955 | 78.2 x 10 ³ | 3.50 | 450 | 1000 | 60 | 2.320 | 1.770 | 0.033 | W4 | |
| M0790YC200 | 2000 | 790 | 9000 | 405 x 10 ³ | 4.00 | 425 | 1000 | 60 | 1.272 | 0.584 | 0.050 | W2 | W2 Weight 80 g |
| M0790YC250 | 2500 | 790 | 9000 | 405 x 10 ³ | 4.00 | 425 | 1000 | 60 | 1.272 | 0.584 | 0.050 | W2 | |
| M0790YH200 | 2000 | 790 | 9000 | 405 x 10 ³ | 4.00 | 425 | 1000 | 60 | 1.272 | 0.584 | 0.050 | W3 | W3 Weight 140 g |
| M0790YH250 | 2500 | 790 | 9000 | 405 x 10 ³ | 4.00 | 425 | 1000 | 60 | 1.272 | 0.584 | 0.050 | W3 | |
| M0914LC200 | 2000 | 914 | 8500 | 361 x 10 ³ | 3.20 | 300 | 1000 | 60 | 1.768 | 0.653 | 0.032 | W4 | W4 Weight 340 g |
| M0914LC250 | 2500 | 914 | 8500 | 361 x 10 ³ | 3.20 | 300 | 1000 | 60 | 1.768 | 0.653 | 0.032 | W4 | |
| M1010NC400 | 4000 | 1010 | 9600 | 461 x 10 ³ | 3.20 | 1450 | 1000 | 200 | 1.700 | 1.030 | 0.022 | W5 | W5 Weight 510 g |
| M1010NC450 | 4500 | 1010 | 9600 | 461 x 10 ³ | 3.20 | 1450 | 1000 | 200 | 1.700 | 1.030 | 0.022 | W5 | |
| M1010ND400 | 4000 | 1010 | 9600 | 461 x 10 ³ | 3.20 | 1450 | 1000 | 200 | 1.700 | 1.030 | 0.022 | W37 | W37 Weight 1700 g |
| M1010ND450 | 4500 | 1010 | 9600 | 461 x 10 ³ | 3.20 | 1450 | 1000 | 200 | 1.700 | 1.030 | 0.022 | W37 | |
| M1163NC400 | 4000 | 1163 | 10800 | 583 x 10 ³ | 6.40 | 1200 | 1000 | 60 | 1.500 | 0.770 | 0.022 | W5 | W5 Weight 1000 g |
| M1163NC450 | 4500 | 1163 | 10800 | 583 x 10 ³ | 6.40 | 1200 | 1000 | 60 | 1.500 | 0.770 | 0.022 | W5 | |
| M1163ND400 | 4000 | 1163 | 10800 | 583 x 10 ³ | 6.40 | 1200 | 1000 | 60 | 1.500 | 0.770 | 0.022 | W37 | W37 Weight 1700 g |
| M1163ND450 | 4500 | 1163 | 10800 | 583 x 10 ³ | 6.40 | 1200 | 1000 | 60 | 1.500 | 0.770 | 0.022 | W37 | |
| M1502NC200 | 2000 | 1502 | 17000 | 1.45 x 10 ⁶ | 3.50 | 350 | 1000 | 60 | 1.240 | 0.440 | 0.022 | W5 | W4 Weight 340 g |
| M1502NC250 | 2500 | 1502 | 17000 | 1.45 x 10 ⁶ | 3.50 | 350 | 1000 | 60 | 1.240 | 0.440 | 0.022 | W5 | |
| M1502ND200 | 2000 | 1502 | 17000 | 1.45 x 10 ⁶ | 3.50 | 350 | 1000 | 60 | 1.240 | 0.440 | 0.022 | W37 | W37 Weight 1700 g |
| M1502ND250 | 2500 | 1502 | 17000 | 1.45 x 10 ⁶ | 3.50 | 350 | 1000 | 60 | 1.240 | 0.440 | 0.022 | W37 | |
| M1583VC400 | 4000 | 1583 | 24800 | 3.08 x 10 ⁶ | 5.00 | 2000 | 1000 | 200 | 1.693 | 0.525 | 0.016 | W6 | W6 Weight 1000 g |
| M1583VC450 | 4500 | 1583 | 24800 | 3.08 x 10 ⁶ | 5.00 | 2000 | 1000 | 200 | 1.693 | 0.525 | 0.016 | W6 | |
| M1583VF400 | 4000 | 1583 | 24800 | 3.08 x 10 ⁶ | 5.00 | 2000 | 1000 | 200 | 1.693 | 0.525 | 0.016 | W43 | W43 Weight 800 g |
| M1583VF450 | 4500 | 1583 | 24800 | 3.08 x 10 ⁶ | 5.00 | 2000 | 1000 | 200 | 1.693 | 0.525 | 0.016 | W43 | |
| M1609NC200 | 2000 | 1609 | 17500 | 1.53 x 10 ⁶ | 3.20 | 800 | 1000 | 200 | 1.310 | 0.345 | 0.022 | W5 | W5 Weight 510 g |
| M1609NC260 | 2600 | 1609 | 17500 | 1.53 x 10 ⁶ | 3.20 | 800 | 1000 | 200 | 1.310 | 0.345 | 0.022 | W5 | |
| M1609ND200 | 2000 | 1609 | 17500 | 1.53 x 10 ⁶ | 3.20 | 800 | 1000 | 200 | 1.310 | 0.345 | 0.022 | W37 | W37 Weight 1700 g |
| M1609ND260 | 2600 | 1609 | 17500 | 1.53 x 10 ⁶ | 3.20 | 800 | 1000 | 200 | 1.310 | 0.345 | 0.022 | W37 | |
| M2273VC300 | 3000 | 2273 | 28000 | 3.92 x 10 ⁶ | 8.50 | 2500 | 1000 | 60 | 1.239 | 0.244 | 0.016 | W6 | W6 Weight 1000 g |
| M2273VC360 | 3600 | 2273 | 28000 | 3.92 x 10 ⁶ | 8.50 | 2500 | 1000 | 60 | 1.239 | 0.244 | 0.016 | W6 | |
| M2273VF300 | 3000 | 2273 | 28000 | 3.92 x 10 ⁶ | 8.50 | 2500 | 1000 | 60 | 1.239 | 0.244 | 0.016 | W43 | W43 Weight 800 g |
| M2273VF360 | 3600 | 2273 | 28000 | 3.92 x 10 ⁶ | 8.50 | 2500 | 1000 | 60 | 1.239 | 0.244 | 0.016 | W43 | |
| M2408NC020 | 200 | 2408 | 24000 | 2.88 x 10 ⁶ | 1.90 | 250 | 1000 | 200 | 1.065 | 0.122 | 0.022 | W5 | W5 Weight 510 g |
| M2408NC060 | 600 | 2408 | 24000 | 2.88 x 10 ⁶ | 1.90 | 250 | 1000 | 200 | 1.065 | 0.122 | 0.022 | W5 | |
| M2408ND020 | 200 | 2408 | 24000 | 2.88 x 10 ⁶ | 1.90 | 250 | 1000 | 200 | 1.065 | 0.122 | 0.022 | W37 | W37 Weight 1700 g |
| M2408ND060 | 600 | 2408 | 24000 | 2.88 x 10 ⁶ | 1.90 | 250 | 1000 | 200 | 1.065 | 0.122 | 0.022 | W37 | |
| M2639ZC360 | 3600 | 2639 | 27520 | 3.79 x 10 ⁶ | 8.50 | 2300 | 1000 | 60 | 1.380 | 0.290 | 0.011 | W7 | W7 Weight 1700 g |
| M2639ZC420 | 4200 | 2639 | 27520 | 3.79 x 10 ⁶ | 8.50 | 2300 | 1000 | 60 | 1.380 | 0.290 | 0.011 | W7 | |
| M2639ZC450 | 4500 | 2639 | 27520 | 3.79 x 10 ⁶ | 8.50 | 2300 | 1000 | 60 | 1.380 | 0.290 | 0.011 | W7 | W7 Weight 1700 g |
| M2639ZD360 | 3600 | 2639 | 27520 | 3.79 x 10 ⁶ | 8.50 | 2300 | 1000 | 60 | 1.380 | 0.290 | 0.011 | W42 | |
| M2639ZD420 | 4200 | 2639 | 27520 | 3.79 x 10 ⁶ | 8.50 | 2300 | 1000 | 60 | 1.380 | 0.290 | 0.011 | W42 | |
| M2639ZD450 | 4500 | 2639 | 27520 | 3.79 x 10 ⁶ | 8.50 | 2300 | 1000 | 60 | 1.380 | 0.290 | 0.011 | W42 | |
| M2698ZC250 | 2500 | 2698 | 27800 | 3.86 x 10 ⁶ | 6.20 | 1200 | 1000 | 60 | 1.000 | 0.330 | 0.011 | W7 | W7 Weight 510 g |
| M2698ZC280 | 2800 | 2698 | 27800 | 3.86 x 10 ⁶ | 6.20 | 1200 | 1000 | 60 | 1.000 | 0.330 | 0.011 | W7 | |
| M2698ZC350 | 3500 | 2698 | 27800 | 3.86 x 10 ⁶ | 6.20 | 1200 | 1000 | 60 | 1.000 | 0.330 | 0.011 | W7 | W37 Weight 510 g |
| M2698ZD250 | 2500 | 2698 | 27800 | 3.86 x 10 ⁶ | 6.20 | 1200 | 1000 | 60 | 1.000 | 0.330 | 0.011 | W42 | |
| M2698ZD280 | 2800 | 2698 | 27800 | 3.86 x 10 ⁶ | 6.20 | 1200 | 1000 | 60 | 1.000 | 0.330 | 0.011 | W42 | |
| M2698ZD350 | 3500 | 2698 | 27800 | 3.86 x 10 ⁶ | 6.20 | 1200 | 1000 | 60 | 1.000 | 0.330 | 0.011 | W42 | |
| M2837VC180 | 1800 | 2837 | 31800 | 5.1 x 10 ⁶ | 7.00 | 2100 | 1000 | 60 | 0.900 | 0.170 | 0.016 | W6 | W6 Weight 1200 g |
| M2837VC250 | 2500 | 2837 | 31800 | 5.1 x 10 ⁶ | 7.00 | 2100 | 1000 | 60 | 0.900 | 0.170 | 0.016 | W6 | |
| M2837VF180 | 1800 | 2837 | 31800 | 5.1 x 10 ⁶ | 7.00 | 2100 | 1000 | 60 | 0.900 | 0.170 | 0.016 | W43 | W43 Weight 800 g |
| M2837VF250 | 2500 | 2837 | 31800 | 5.1 x 10 ⁶ | 7.00 | 2100 | 1000 | 60 | 0.900 | 0.170 | 0.016 | W43 | |
| M3770ZC200 | 2000 | 3770 | 44000 | 9.68 x 10 ⁶ | 7.00 | 2000 | 1000 | 60 | 1.190 | 1.118 | 0.011 | W7 | W7 Weight 800 g |
| M3770ZC240 | 2400 | 3770 | 44000 | 9.68 x 10 ⁶ | 7.00 | 2000 | 1000 | 60 | 1.190 | 1.118 | 0.011 | W7 | |
| M3770ZC300 | 3000 | 3770 | 44000 | 9.68 x 10 ⁶ | 7.00 | 2000 | 1000 | 60 | 1.190 | 1.118 | 0.011 | W7 | W7 Weight 800 g |
| M3770ZD200 | 2000 | 3770 | 44000 | 9.68 x 10 ⁶ | 7.00 | 2000 | 1000 | 60 | 1.190 | 1.118 | 0.011 | W42 | |
| M3770ZD240 | 2400 | 3770 | 44000 | 9.68 x 10 ⁶ | 7.00 | 2000 | 1000 | 60 | 1.190 | 1.118 | 0.011 | W42 | |
| M3770ZD300 | 3000 | 3770 | 44000 | 9.68 x 10 ⁶ | 7.00 | 2000 | 1000 | 60 | 1.190 | 1.118 | 0.011 | W42 | |