

Extra Fast Recovery Diodes

These products are designed to offer the lowest practical values of reverse recovery current whilst offering wide safe operating area and high di/dt capability required by modern switching components.

Capsule Types

| Part No. | V _{RRM} V | I _{FAV} A T _K = 55°C | I _{FSM} A 10 ms ½ sine V _R - ≤ 60% V _{RRM} | I ² t A ² s | Typ. Reverse Recovery | | | | | V _{TO} V | r _T mΩ | T _{JM} °C | R _{thJK} d.c. 180° sine K/W | Fig. No. |
|-------------------|-----------------------|--|--|--------------------------------------|-----------------------|-----------------------|-----------------------|------------------------|--------------------------------|----------------------|----------------------|-----------------------|--|----------|
| | | | | | T _{JM} | | | | | | | | | |
| | | | | | I _{rm} A | t _{rr} μs | Q _{rr} μC | @ I _{FM} A | @ -di _F /dt A/μs | | | | | |
| F0240YC250 | 2500 | 240 | 3100 | 48.1 x 10 ³ | 40 | 2.00 | 100 | 550 | 40 | 2.271 | 2.853 | 150 | 0.1000 | W2 |
| F0240YC300 | 3000 | 240 | 3100 | 48.1 x 10 ³ | 40 | 2.00 | 100 | 550 | 40 | 2.271 | 2.853 | 150 | 0.1000 | W2 |
| F0240YH250 | 2500 | 240 | 3100 | 48.1 x 10 ³ | 40 | 2.00 | 100 | 550 | 40 | 2.271 | 2.853 | 150 | 0.1000 | W3 |
| F0240YH300 | 3000 | 240 | 3100 | 48.1 x 10 ³ | 40 | 2.00 | 100 | 550 | 40 | 2.271 | 2.853 | 150 | 0.1000 | W3 |
| F0300WC140 | 1400 | 240 | 2700 | 36.5 x 10 ³ | 530 | 3.00 | 70 | 550 | 40 | 1.760 | 2.210 | 125 | 0.0950 | W1 |
| F0300WC180 | 1800 | 240 | 2700 | 36.5 x 10 ³ | 530 | 3.00 | 70 | 550 | 40 | 1.760 | 2.210 | 125 | 0.0950 | W1 |
| F0800LC140 | 1400 | 775 | 7630 | 291 x 10 ³ | 380 | 1.10 | 200 | 1000 | 200 | 1.494 | 0.692 | 125 | 0.0320 | W4 |
| F0800LC180 | 1800 | 775 | 7630 | 291 x 10 ³ | 380 | 1.10 | 200 | 1000 | 200 | 1.494 | 0.692 | 125 | 0.0320 | W4 |
| F0900VC450 | 4500 | 816 | 10450 | 546 x 10 ³ | 120 | 3.80 | 230 | 1000 | 60 | 2.024 | 1.274 | 115 | 0.0160 | W6 |
| F0900VC520 | 5200 | 816 | 10450 | 546 x 10 ³ | 120 | 3.80 | 230 | 1000 | 60 | 2.024 | 1.274 | 115 | 0.0160 | W6 |
| F0900VF450 | 4500 | 816 | 10450 | 546 x 10 ³ | 120 | 3.80 | 230 | 1000 | 60 | 2.024 | 1.274 | 115 | 0.0160 | W43 |
| F0900VF520 | 5200 | 816 | 10450 | 546 x 10 ³ | 120 | 3.80 | 230 | 1000 | 60 | 2.024 | 1.274 | 115 | 0.0160 | W43 |
| F1000LC080 | 800 | 826 | 8500 | 361 x 10 ³ | 320 | 1.60 | 250 | 1000 | 800 | 1.530 | 0.547 | 125 | 0.0320 | W4 |
| F1000LC120 | 1200 | 826 | 8500 | 361 x 10 ³ | 320 | 1.60 | 250 | 1000 | 800 | 1.530 | 0.547 | 125 | 0.0320 | W4 |
| F1300NC45P | 4500 | 1346 | 20800 | 2.16 x 10 ⁶ | 470 | 4.30 | 2150 | 1000 | 200 | 1.569 | 0.318 | 140 | 0.0240 | W5 |
| F1300NC50P | 5000 | 1346 | 20800 | 2.16 x 10 ⁶ | 470 | 4.30 | 2150 | 1000 | 200 | 1.569 | 0.318 | 140 | 0.0240 | W5 |
| F1300NC55P | 5500 | 1346 | 20800 | 2.16 x 10 ⁶ | 470 | 4.30 | 2150 | 1000 | 200 | 1.569 | 0.318 | 140 | 0.0240 | W5 |
| F1400NC140 | 1400 | 1093 | 17250 | 1.49 x 10 ⁶ | 800 | 1.50 | 1000 | 1400 | 1000 | 1.618 | 0.388 | 125 | 0.0240 | W5 |
| F1400NC180 | 1800 | 1093 | 17250 | 1.49 x 10 ⁶ | 800 | 1.50 | 1000 | 1400 | 1000 | 1.618 | 0.388 | 125 | 0.0240 | W5 |
| F1500NC200 | 2000 | 1054 | 13750 | 950 x 10 ³ | 1065 | 1.50 | 1500 | 1500 | 2000 | 1.372 | 0.535 | 125 | 0.0240 | W5 |
| F1500NC250 | 2500 | 1054 | 13750 | 950 x 10 ³ | 1065 | 1.50 | 1500 | 1500 | 2000 | 1.372 | 0.535 | 125 | 0.0240 | W5 |
| F1600NC080 | 800 | 1326 | 20000 | 2.0 x 10 ⁶ | 480 | 2.30 | 700 | 1600 | 800 | 1.320 | 0.268 | 125 | 0.0240 | W5 |
| F1600NC120 | 1200 | 1326 | 20000 | 2.0 x 10 ⁶ | 480 | 2.30 | 700 | 1600 | 800 | 1.320 | 0.268 | 125 | 0.0240 | W5 |

Outlines on pages O-01...O-35



W1 Weight 70 g



W2 Weight 80 g



W3 Weight 140 g



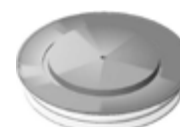
W4 Weight 340 g



W5 Weight 510 g



W6 Weight 1 kg



W43 Weight 800 g