










# Rectifier Diodes - Capsule Types

WESTCODE

Our comprehensive range of rectifier diodes offers class leading performance and reliability. Devices with blocking voltages from 400V up to 6kV are available making them ideal for applications with line voltages up to 2 kV. Optimised to offer low conduction losses, these devices are ideally suited to line frequency applications including input rectifiers for variable speed drives, traction converters, trackside substations, welding and DC power supplies. Featuring compression bonded, alloyed Silicon wafer construction, these devices feature low thermal impedance and high overload capacity and are designed to survive even the most arduous applications.

The latest additions to the Westcode Rectifier Diode family are two new 56 mm Ø Si Rectifier Diodes. The new package designs have proven alloyed technology for better transient thermal and surge ratings. Two new products have been launched offering approximately 40% more current rating than existing products in the same space envelope; 4.8 kV device W2899MC480 and 2.8 kV device W3842MC280.

Type		V <sub>RRM</sub>	I <sub>FAV</sub> T <sub>K</sub> = 55°C	I <sub>FSM</sub>	I <sup>2</sup> t 10 ms ½ sine V <sub>R</sub> ≤ 60% V <sub>RRM</sub>		V <sub>T0</sub>	r <sub>T</sub>	T <sub>JM</sub>	R <sub>thJK</sub>		Fig. No.	Package style
Part No.	Old Part No.	V	A	A	A <sup>2</sup> s	V	mΩ	°C	180° Sine K/W	120° Rect. K/W			Outlines on pages O-01...O-24
➤ New													
W0507YH360	SW36HXC270	3600	507	7600	289 x 10 <sup>3</sup>	0.970	0.880	160	0.100	0.117	W3		
W0507YH450	SW45HXC270	4500	507	7600	289 x 10 <sup>3</sup>	0.970	0.880	160	0.100	0.117	W3		
W0614WC160	SW16CXC320	1600	614	4000	80 x 10 <sup>3</sup>	1.000	0.830	180	0.090	0.098	W1		
W0614WC200	SW20CXC320	2000	614	4000	80 x 10 <sup>3</sup>	1.000	0.830	180	0.090	0.098	W1		
W0614WC240	SW24CXC320	2400	614	4000	80 x 10 <sup>3</sup>	1.000	0.830	180	0.090	0.098	W1		
W0642WC160	SW16CXC380	1600	680	5500	151 x 10 <sup>3</sup>	0.990	0.740	180	0.090	0.098	W1		
W0642WC200	SW20CXC380	2000	680	5500	151 x 10 <sup>3</sup>	0.990	0.740	180	0.090	0.098	W1		
W0642WC240	SW24CXC380	2400	680	5500	151 x 10 <sup>3</sup>	0.990	0.740	180	0.090	0.098	W1		
W0646WC060	SW06CXC300	600	646	5500	151 x 10 <sup>3</sup>	1.070	0.676	190	0.090	0.098	W1	W1 Weight 70 g	
W0646WC120	SW12CXC300	1200	646	5500	151 x 10 <sup>3</sup>	1.070	0.676	190	0.090	0.098	W1		
W0646WC150	SW15CXC300	1500	646	5500	151 x 10 <sup>3</sup>	1.070	0.676	190	0.090	0.098	W1		
W0797WC040	SW04CXC400	400	797	7500	281 x 10 <sup>3</sup>	0.800	0.550	190	0.090	0.098	W1		
W0797WC120	SW12CXC400	1200	797	7500	281 x 10 <sup>3</sup>	0.800	0.550	190	0.090	0.098	W1		
W0797WC150	SW15CXC400	1500	797	7500	281 x 10 <sup>3</sup>	0.800	0.550	190	0.090	0.098	W1		
W0944WC040	SW04CXC470	400	944	9000	405 x 10 <sup>3</sup>	0.790	0.342	190	0.090	0.098	W1		
W0944WC120	SW12CXC470	1200	944	9000	405 x 10 <sup>3</sup>	0.790	0.342	190	0.090	0.098	W1		
W0944WC150	SW15CXC470	1500	944	9000	405 x 10 <sup>3</sup>	0.790	0.342	190	0.090	0.098	W1		
W1032LC500	SW50CXC350	5000	1032	7200	259 x 10 <sup>3</sup>	1.000	0.702	150	0.033	0.040	W4	W2 Weight 80 g	
W1032LC560	SW56CXC350	5600	1032	7200	259 x 10 <sup>3</sup>	1.000	0.702	150	0.033	0.040	W4		
W1032LC600	N/A	6000	1032	7200	259 x 10 <sup>3</sup>	1.000	0.702	150	0.033	0.040	W4		
W1074YC200	SW20CXC445	2000	1074	10800	583 x 10 <sup>3</sup>	0.920	0.390	160	0.050	0.061	W2		
W1074YC320	SW32CXC445	3200	1074	10800	583 x 10 <sup>3</sup>	0.920	0.390	160	0.050	0.061	W2		
W1074YH200	SW20HXC445	2000	1074	10800	583 x 10 <sup>3</sup>	0.920	0.390	160	0.050	0.061	W3		
W1074YH320	SW32HXC445	3200	1074	10800	583 x 10 <sup>3</sup>	0.920	0.390	160	0.050	0.061	W3		
W1185LC300	SW30CXC515	3000	1185	9200	423 x 10 <sup>3</sup>	1.000	0.575	160	0.033	0.040	W4		
W1185LC380	SW38CXC515	3800	1185	9200	423 x 10 <sup>3</sup>	1.000	0.575	160	0.033	0.040	W4		
W1185LC450	SW45CXC515	4500	1185	9200	423 x 10 <sup>3</sup>	1.000	0.575	160	0.033	0.040	W4		
W1263YC160	SW16CXC565	1600	1263	11700	684 x 10 <sup>3</sup>	0.870	0.330	175	0.050	0.061	W2	W3 Weight 140 g	
W1263YC200	SW20CXC565	2000	1263	11700	684 x 10 <sup>3</sup>	0.870	0.330	175	0.050	0.061	W2		
W1263YC250	SW25CXC565	2500	1263	11700	684 x 10 <sup>3</sup>	0.870	0.330	175	0.050	0.061	W2		
W1263YH160	SW16HXC565	1600	1263	11700	684 x 10 <sup>3</sup>	0.870	0.330	175	0.050	0.061	W3		
W1263YH200	SW20HXC565	2000	1263	11700	684 x 10 <sup>3</sup>	0.870	0.330	175	0.050	0.061	W3		
W1263YH250	SW25HXC565	2500	1263	11700	684 x 10 <sup>3</sup>	0.870	0.330	175	0.050	0.061	W3		
W1294NC500	SW50CXC500	5000	1294	10000	500 x 10 <sup>3</sup>	1.150	0.684	150	0.022	0.026	W5*		
W1294NC600	SW60CXC500	6000	1294	10000	500 x 10 <sup>3</sup>	1.150	0.684	150	0.022	0.026	W5*		
W1294ND500	SW50DXC500	5000	1294	10000	500 x 10 <sup>3</sup>	1.150	0.684	150	0.022	0.026	W37		
W1294ND600	SW60DXC500	6000	1294	10000	500 x 10 <sup>3</sup>	1.150	0.684	150	0.022	0.026	W37		
W1411LC300	SW30CXC595	3000	1411	10600	562 x 10 <sup>3</sup>	0.900	0.388	160	0.033	0.040	W4		
W1411LC360	SW36CXC595	3600	1411	10600	562 x 10 <sup>3</sup>	0.900	0.388	160	0.033	0.040	W4	W4 Weight 340 g	
W1520NC500	SW50CXC620	5000	1478	12000	720 x 10 <sup>3</sup>	0.904	0.552	150	0.022	0.026	W5*		
W1520NC600	SW60CXC620	6000	1478	12000	720 x 10 <sup>3</sup>	0.904	0.552	150	0.022	0.026	W5*		
W1524LC240	SW24CXC635	2400	1524	12700	810 x 10 <sup>3</sup>	0.870	0.323	160	0.033	0.040	W4		
W1524LC300	SW30CXC635	3000	1524	12700	810 x 10 <sup>3</sup>	0.870	0.323	160	0.033	0.040	W4		
W1608NC400	SW40CXC680	4000	1608	13000	845 x 10 <sup>3</sup>	0.975	0.501	160	0.022	0.026	W5*		
W1608NC500	SW50CXC680	5000	1608	13000	845 x 10 <sup>3</sup>	0.975	0.501	160	0.022	0.026	W5*		
W1748LC080	SW08CXC805	800	1748	15400	1.19 x 10 <sup>6</sup>	0.870	0.280	175	0.033	0.040	W4	W5 Weight 510 g *Not recommended for new design	
W1748LC180	SW18CXC805	1800	1748	15400	1.19 x 10 <sup>6</sup>	0.870	0.280	175	0.033	0.040	W4		
W1748LC220	SW22CXC805	2200	1748	15400	1.19 x 10 <sup>6</sup>	0.870	0.280	175	0.033	0.040	W4		
W1748LC250	SW25CXC805	2500	1748	15400	1.19 x 10 <sup>6</sup>	0.870	0.280	175	0.033	0.040	W4		
W1856NC400	SW40CXC815	4000	1856	16000	1.28 x 10 <sup>6</sup>	0.975	0.348	160	0.022	0.026	W5*		
W1856NC500	SW50CXC815	5000	1856	16000	1.28 x 10 <sup>6</sup>	0.975	0.348	160	0.022	0.026	W5*		
W2020NC360	SW36CXC818	3600	2020	18000	1.62 x 10 <sup>6</sup>	1.000	0.320	160	0.020	0.022	W5*		
W2020NC450	SW45CXC818	4500	2020	18000	1.62 x 10 <sup>6</sup>	1.000	0.320	160	0.020	0.022	W5*		
W2052NC300	SW30CXC820	3000	2052	19500	1.90 x 10 <sup>6</sup>	0.865	0.288	160	0.022	0.026	W5*	W37 Weight 510 g	
W2052NC400	SW40CXC820	4000	2052	19500	1.90 x 10 <sup>6</sup>	0.865	0.288	160	0.022	0.026	W5*		
W2054NC360	SW36CXC920	3600	2054	19000	1.81 x 10 <sup>6</sup>	0.800	0.300	160	0.022	0.026	W5*		
W2054NC450	SW45CXC920	4500	2054	19000	1.81 x 10 <sup>6</sup>	0.800	0.300	160	0.022	0.026	W5*		
W2058LC020	SW02CXC935	200	2058	19500	1.90 x 10 <sup>6</sup>	0.790	0.192	175	0.033	0.040	W4	W37 Weight 510 g	
W2058LC100	SW10CXC935	1000	2058	19500	1.90 x 10 <sup>6</sup>	0.790	0.192	175	0.033	0.040	W4		
W2058LC120	SW12CXC935	1200	2058	19500	1.90 x 10 <sup>6</sup>	0.790	0.192	175	0.033	0.040	W4		
W2058LC140	SW14CXC935	1400	2058	19500	1.90 x 10 <sup>6</sup>	0.790	0.192	175	0.033	0.040	W4		
W2134NC300	SW30CXC930	3000	2134	20000	2.00 x 10 <sup>6</sup>	0.865	0.260	160	0.022	0.026	W5*		
W2134NC400	SW40CXC930	4000	2134	20000	2.00 x 10 <sup>6</sup>	0.865	0.260	160	0.022	0.026	W5*		