

**RECTIFIER DEVICE - Rectifier Diodes - Capsule Types**

Old Part Number	PDF Data Sheet Available	New Part Number	V <sub>DRM</sub> V <sub>RRM</sub> Range	I <sub>F(AV)</sub> @ T <sub>HS</sub> 55°C	I <sub>F(RMS)</sub> @ T <sub>HS</sub> 25°C	I <sub>F</sub> @ T <sub>HS</sub> 25°C	I <sub>FSM(1)</sub> 10ms V <sub>R</sub> £60% V <sub>RRM</sub>	I <sub>FSM(1)</sub> 10ms V <sub>R</sub> £10V	I <sup>2</sup> t <sub>(2)</sub> 10ms	I <sub>RRM</sub> @ T <sub>J</sub> Max.	V <sub>o</sub> r @ T <sub>J</sub> Max.	V <sub>o</sub> r @ T <sub>J</sub> Max.	T <sub>J</sub> Max.	Rth j-hs		Wt (Typ)	Mounting Force	Outline No. (Note 4)		
			(Note 3)	(A)	(A)	(A)	(Note 2)	(Note 2)	(Note 2)	(mA)	(V)	(M)	(V)	(M)		d.c. 180° sine	120° Rect.		(g)	(kN)
			(V)	(A)	(A)	(A)	(A)	(A)	(A <sup>2</sup> s)	(mA)	(V)	(M)	(V)	(M)		(K/W)	(K/W)	(g)	(kN)	
SW06-15CXC300	N	W0646WC060-150	200-1500	646	1170	1000	5500	6050	183 x 10 <sup>3</sup>	15	0.95	0.75	2.40	1930	180	0.090	0.095	70	3.3 - 5.5	100A241
SW16-24CXC320	N	W0614WC160-240	1600-2400	614	1100	960	4000	4400	97 x 10 <sup>3</sup>	15	1.00	0.83	2.25	1500	180	0.090	0.095	70	3.3 - 5.5	
SW16-24CXC380	N	W0642WC160-240	1600-2400	642	1160	1000	5500	6050	183 x 10 <sup>3</sup>	15	0.99	0.74	2.10	1500	190	0.090	0.095	70	3.3 - 5.5	
SW04-15CXC400	N	W0777WC040-150	200-1500	797	1420	1240	7500	8250	340 x 10 <sup>3</sup>	15	0.80	0.55	1.86	1930	190	0.090	0.095	70	3.3 - 5.5	
SW04-15CXC470	N	W0944WC040-150	200-1500	944	1694	1430	9000	10000	500 x 10 <sup>3</sup>	15	0.79	0.342	1.450	1930	160	0.090	0.095	70	3.3 - 5.5	
SW20-32CXC445	N	W1074YC200-320	2000-3200*	1074	1985	1700	10800	11800	696 x 10 <sup>3</sup>	30	0.92	0.39	2.13	3090	175	0.050	0.058	80	3.3 - 10.0	100A291
SW16-25CXC565	N	W1263YC160-250	1600-2500*	1263	2290	1972	11700	13000	845 x 10 <sup>3</sup>	30	0.87	0.33	2.12	3770	175	0.050	0.058	80	5.3 - 10.0	
SW36-45CXC270	N	W0507YF360-450	3600-4500	507	270	1038	9000	9900	0.49 x 10 <sup>6</sup>	30	0.75	0.531	1.09	635	160	0.100	0.106	141	350-550	100A317
SW50-56CXC350	N	W1032LC500-560	4500-5600	1032	1910	1720	7200	7920	314 x 10 <sup>3</sup>	30	1.00	0.702	2.70	2420	150	0.033	0.040	340	10.0 - 20.0	100A243
SW30-45CXC515	N	W1185LC380-450	3800-4500	1185	2171	1936	9200	10600	559 x 10 <sup>3</sup>	30	1.00	0.575	2.40	2420	160	0.033	0.040	340	10.0 - 20.0	
SW30-36CXC595	N	W1411LC300-360	3000-3600	1411	2590	2288	10600	12200	744 x 10 <sup>3</sup>	30	0.90	0.388	2.00	2870	160	0.033	0.040	340	10.0 - 20.0	
SW24-30CXC635	N	W1524LC240-300	2400-3000	1524	2800	2460	12700	14600	1.07 x 10 <sup>6</sup>	30	0.87	0.323	1.87	3090	160	0.033	0.400	340	10.0 - 20.0	
SW04-22CXC805	N	W1748LC040-220	200-2200	1748	3160	2760	15400	17700	1.56 x 10 <sup>6</sup>	30	0.87	0.28	1.93	3770	175	0.033	0.040	340	10.0 - 20.0	
SW02-12CXC935	N	W2058LC020-120	200-1200	2058	3730	3230	19500	22400	2.50 x 10 <sup>6</sup>	30	0.79	0.192	1.63	4400	175	0.033	0.040	340	10.0 - 20.0	
SW50-60DXC500	N	W1294ND500-600	5000-6000	1294	2400	2160	10000	11000	605 x 10 <sup>3</sup>	70	1.15	0.684	2.750	2340	150	0.022	0.028	510	19.0 - 26.0	100A249
SW50-60DXC620	N	W1520ND500-600	5000-6000	1520	2830	2500	12000	19000	1.80 x 10 <sup>6</sup>	70	1.15	0.45	2.20	2340	150	0.022	0.028	510	19.0 - 26.0	
SW40-50CXC680	N	W1608NC400-500	4000-5000	1608	2930	2660	13000	14300	1.02 x 10 <sup>6</sup>	50	0.975	0.501	2.480	3000	160	0.022	0.028	510	19.0 - 26.0	
SW40-50CXC815	N	W1856NC400-500	4000-5000	1856	3400	3025	16000	21000	2.20 x 111	50	0.975	0.348	2.02	3000	160	0.022	0.028	510	19.0 - 26.0	
SW30-40CXC820	N	W2052NC300-400	3000-4000	2052	3755	3350	19500	21450	2.30 x 10 <sup>6</sup>	50	0.865	0.288	1.96	3800	160	0.022	0.028	510	19.0 - 26.0	
SW36-45CXC920	N	W2057NC360-450	3000-4000	2052	3750	3381	19000	20900	2.18 x 10 <sup>6</sup>	50	0.80	0.30	1.70	3000	160	0.022	0.028	510	19.0 - 26.0	
SW30-40CXC930	N	W2134NC300-400	3000-4000	2134	3900	3460	20000	24000	2.88 x 10 <sup>6</sup>	50	0.865	0.26	1.86	3800	160	0.022	0.028	510	19.0 - 26.0	
SW16-25CXC950	N	W2416NC160-250	16000-2500	2416	4430	3920	25500	28050	3.92 x 10 <sup>6</sup>	50	0.78	0.20	1.68	4500	160	0.022	0.028	510	19.0 - 26.0	
SW16-25CXC11C	N	W2624NC160-250	1600-2500	2624	4830	4220	28000	30800	4.74 x 10 <sup>6</sup>	50	0.78	0.16	1.50	4500	160	0.022	0.028	510	19.0 - 26.0	
SW02-20CXC14C	N	W3270NC020-200	200-2000	3270	5920	5140	33000	37000	6.85 x 10 <sup>6</sup>	50	0.73	0.116	1.47	6400	175	0.022	0.028	510	19.0 - 26.0	
SW02-06CXC19C	N	W4534NC020-060	200-600	4534	8190	6715	40000	44000	9.68 x 10 <sup>6</sup>	50	0.765	0.0524	1.10	6400	190	0.022	0.028	510	19.0 - 26.0	
SW36-45CXC818	N	W2020NC360-450	3600-4500	2020	3705	3290	18000	20000	2.00 x 10 <sup>6</sup>	75	1.00	0.32	1.96	3000	160	0.020	0.025	510	19.0 - 26.0	
SW30-40CXC1170	N	W2664NC300-400	3000-4000	2664	4900	4295	26500	29200	4.26 x 10 <sup>6</sup>	100	0.824	0.174	1.45	3600	160	0.020	0.025	510	19.0 - 26.0	
SW28-35CXC12C	N	W2958NC280-350	2800-3500	2958	5340	4710	28000	31000	4.81 x 10 <sup>6</sup>	60	0.807	0.167	1.44	3800	175	0.020	0.025	510	19.0 - 26.0	
SW36-45CXC1100	N	W2820VC360-450	3600-4500	2820	5265	4350	26200	28800	3.98 x 10 <sup>6</sup>	60	1.30	0.147	2.30	6800	160	0.016	0.020	1000	27.0 - 34.0	
SW30-40CXC13C	N	W3128VC300-400	3000-4000	3128	5600	4900	30000	33000	5.45 x 10 <sup>6</sup>	60	0.875	0.158	1.95	6800	160	0.016	0.020	1000	27.0 - 34.0	
SW16-28CXC16C	N	W3697VC160-280	1600-2800	3697	6840	5840	40000	45000	10.1 x 10 <sup>6</sup>	60	0.86	0.10	1.54	6800	160	0.016	0.020	1000	27.0 - 34.0	
SW02-14CXC22C	N	W5439VC020-140	200-1400	5439	9700	8470	52000	57000	16.2 x 10 <sup>6</sup>	60	0.65	0.067	1.11	6800	190	0.016	0.020	1000	27.0 - 34.0	
SW02-14CXC27C	N	W5696VC020-140	200-1400	5696	10160	8810	53000	59000	17.4 x 10 <sup>6</sup>	60	0.65	0.06	1.05	6800	190	0.016	0.020	1000	27.0 - 34.0	
SW40-50CXC15C	N	W3743ZC400-500	4000-5000	3743	6870	6100	35000	39000	7.62 x 10 <sup>6</sup>	200	0.976	0.17	2.00	6000	160	0.011	0.014	1700	27.0 - 47.0	100A293
SW24-35CXC18C	N	W5092ZC240-350	2400-3500	5092	9415	8095	58000	63800	20.4 x 10 <sup>6</sup>	150	0.874	0.0794	1.35	6000	160	0.011	0.014	1700	27.0 - 47.0	
SW34-45CXC1870	N	W4096ZC340-450	3400-4500	4096	7460	6800	41700	46400	10.8 x 10 <sup>6</sup>	200	0.73	0.158	1.68	6000	160	0.011	0.014	1700	27.0 - 47.0	
SW20-30CXC20C	N	W4307ZC200-300	2000-3000	4307	7875	7060	55000	60500	18.3 x 10 <sup>6</sup>	100	0.80	0.133	1.60	6000	160	0.011	0.014	1700	27.0 - 47.0	
SW20-30CXC21C	N	W528ZC200-300	2000-3000	5282	9830	8200	60000	67000	22.4 x 10 <sup>6</sup>	100	0.97	0.064	1.35	6000	160	0.011	0.014	1700	27.0 - 47.0	
SW12-22CXC26C	N	W5838ZC120-220	1200-2200	5838	10560	9206	64000	70000	24.5 x 10 <sup>6</sup>	100	0.80	0.074	1.30	6800	175	0.011	0.014	1700	27.0 - 47.0	
SW12-24CXC2850	N	W6262ZC120-240	1200-2400	6262	11327	9885	67000	73700	27.2 x 10 <sup>6</sup>	150	0.74	0.0647	1.18	6800	175	0.011	0.014	1700	27.0 - 47.0	
SW02-14CXC30C	N	W7675ZC020-140	200-1400	7675	13670	12000	68000	75000	28.1 x 10 <sup>6</sup>	100	0.65	0.05	0.99	6800	190	0.011	0.014	1700	27.0 - 47.0	
SW02-14CXC32C	N	W8405ZC020-140	200-1400	8405	15025	12920	72000	79200	31.4 x 10 <sup>6</sup>	100	0.67	0.038	0.93	6800	190	0.011	0.014	1700	27.0 - 47.0	
SWxxCXC2900	N	W6925TCxx0	1800-3000	Please refer to Factory for details																

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- Note 1 V<sub>o</sub> Threshold Voltage  
r Slope resistance ) for conduction loss and heatsink calculations AT T<sub>J</sub> Max
- Note 2 I<sub>FSM</sub> (8.3ms) = I<sub>FSM</sub> (10ms) x 1.066 I<sup>2</sup>t (8.3ms) = I<sup>2</sup>t (10ms) x 0.943 at initial temperature T<sub>J</sub> below 25°C
- Note 3 A blocking voltage derating factor of 0.13% per degree centigrade is applicable for T<sub>J</sub> below 25°C
- Note 4 Capsule outlines available with the following compressed heights:  
Outline 100A270 27.0 / 25.5 = ordering code SWxxFXCxxx, e.g. SW14FXC27C  
Outline 100A293 25.6 / 26.9 = ordering code SWxxDXCxxx, e.g. SW10DXC32C