

FAST SWITCHING DEVICE - Distributed Gate Thyristors - Capsule Type

Old Part Number	PDF Data Sheet Available	New Part Number	V _{max} V _{max} Range Note 3 (V)	T _q 2000/w (ms)	I _{max} 55°C (A)	I _{max} (A) 50% Duty Cycle T _{max} 55°C						di/dt Rep/Non-Rep (A/μs)	I _{max} 25°C (A)	I ₁ 25°C (A)	I _{max} (A) V _g <60% V _{max} T ₁ 125°C Note 1	I _{max} 10ms V _g 150V T ₁ 125°C 10ms (A)	I ² (C) T ₁ 125°C 10ms (A ² s)	Typical Recovered Charge at 125°C, 50% Chord			I _{max} I _{max}	I _{CT} V _{CT}	V _{th} at I ₁ 125°C (V)	V _{th} at I ₂ 125°C (V)	r _c (mΩ)	R _{th} J-sink d.c. & 180° sine (K/W)	120° Rect. (K/W)	Wt (g)	Mounting Force (N)	Outline No.	
						Sine Wave (Typical)		Square Wave 100A/uscc (Typical)										at I ₁ & di/dt @ T ₁ Max.													
						1 KHz	5 KHz	10 KHz	1KHz	5KHz	10KHz							(A)	(A)	(A/μs)											(mA)
R210SH12-14*	Y	R0887Y512x-14x	1200-1400*	20-30	487	1200	1060	990	800	685	670	500 / 1000	982	802	4300	4700	110.5 x 10 ³	40	550	40	60	200/3	2.7	1000	1.738	0.943	0.05	90	4.0 - 10.0	101A335	
R185SH10-12*	Y	R0977Y510x-12x	1000-1200	20-25	577	1500	1350	1200	1000	850	820	1000 / 1500	1169	712	6000	6600	21.8 x 10 ³	85	550	40	60	200/3	2.15	1000	1.51	0.64	0.05	90	5.3 - 10.0	101A335	
R214SH10-12	Y	R0633Y510x-12x	1000-1200	20-30	633	1150	1550	1300	1180	1000	975	500 / 1000	1269	1055	6300	6900	24.0 x 10 ³	85	125	40	60	200/3	1.85	1000	1.25	0.614	0.050	90	5.3 - 10.0	101A335	
R180SH10-12	Y	R0889S120x	1000	12-30	899	2200	1700	1600	1500	1200	1050	1000 / 1500	1691	1260	8900	8800	397 x 10 ³	60	1000	60	70	300/3	2.52	1800	2.1	0.3	0.032	340	10.0 - 20.0	101A336	
R181SH14-16	Y	R0113S14x-16x	1400-1600	35-50	177							1000 / 1500	1439	1191	7950	8000	324.2 x 10 ³	150	300/3	60	70	300/3	2.8	1400	1.703	0.723	0.023	340	10.0 - 20.0	101A336	
R175SH20-25	Y	R0736S20x-25x	2000-2500	50-70	736							1000 / 1500	1490	1207	6800	7500	281 x 10 ³	240	1000	60	100	300/3	2.7	1400	1.842	0.619	0.032	340	10.0 - 20.0	101A336	
R190SH12-14	Y	R0830S12x-14x	1200-1400	20-35	830	2600	2050	1650	1650	1450	1550	1000 / 1500	1715	1320	8500	9350	437 x 10 ³	110	1000	60	70	300/3	2.4	1400	1.9	0.367	0.032	0.041	340	10.0 - 20.0	101A336
R202SH16-18	N	R0878S16x-18x	1200-2100*	60-75	878	2600	1900	1500	1700	1400	1200	1000 / 1500	1765	1456	7500	8250	340 x 10 ³	355	1000	60	70	300/3	2.12	1400	1.45	0.48	0.032	0.064	340	10.0 - 20.0	101A336
R2119SH10-12	Y	R0929S10x-12x	1000-1200	15-25	929	2700	2100	1650	1800	1500	1350	1000 / 1500	1893	1505	9000	9600	490 x 10 ³	85	1000	60	70	300/3	2.04	1400	1.55	0.35	0.032	0.064	340	10.0 - 20.0	101A336
R225SH10-12	Y	R0964S10x-12x	1000-1200	20-30	964	3000	2300	1800	1950	1700	1500	1000 / 1500	1950	1550	9400	10800	580 x 10 ³	115	1000	60	70	300/3	1.96	1400	1.5	0.33	0.032	0.041	340	10.0 - 20.0	101A336
R275SH20-25	Y	R0990S20x-25x	600-800	10-15	990	3000	2500	2150	2000	1950	1900	1000 / 1500	2000	1628	11000	12000	720 x 10 ³	40	1000	60	70	300/3	1.84	1400	1.35	0.35	0.032	0.041	340	10.0 - 20.0	101A336
R295CH36-40	Y	R0898S36x-40x	3600-4000	50-100	890							1000 / 1500	1755	1525	10900	12000	7.20 x 10 ³	1000	60	100	300/3	2.98	1800	1.516	0.8	0.024	0.049	510	19.0 - 26.0	101A223	
R305SH16-18	Y	R1124NS16x-18x	1200-2100*	60-70	1124	3400	2500	1600	2100	1500	1300	1000 / 1500	2248	1855	13500	15000	1.13 x 10 ⁴	400	1000	60	150	300/3	2.3	2000	1.55	0.375	0.024	0.029	510	19.0 - 26.0	101A337
R325SH12-14*	Y	R1178NS12x-14x	1200-1400	25-35	1178	3600	2700	2000	2500	2000	1800	1000 / 1500	2398	1915	17000	18700	1.75 x 10 ⁴	170	1000	60	150	300/3	2.2	2000	1.6	0.3	0.024	0.029	510	19.0 - 26.0	101A337
R350SH10-12	Y	R1211NS10x-12x	1000-1200	20-25	1211	3800	2300	1800	2300	1700	1500	1000 / 1500	2496	1926	17600	19400	1.88 x 10 ⁴	100	1000	60	150	300/3	2.18	2000	1.72	0.23	0.024	0.029	510	19.0 - 26.0	101A223
R355SH10-12	Y	R1274NS10x-12x	1000-1200	20-35	1275	3800	2700	2100	2600	2000	1800	1000 / 1500	2600	2050	18000	19800	1.96 x 10 ⁴	135	1000	60	150	300/3	2.02	2000	1.55	0.256	0.024	0.029	510	19.0 - 26.0	101A337
R395SH16-18	N	R1295NS16x-18x	1600-2100*	65-70	1293	3900	2500	1900	2500	1900	1600	1000 / 1500	2594	2144	15500	17000	1.45 x 10 ⁴	420	1000	60	150	300/3	1.9	2000	1.3	0.3	0.024	0.029	510	19.0 - 26.0	101A337
R400SH10-12	Y	R1444NS10x-12x	1000-1200	25-35	1444	4600	3100	2300	2900	2300	2100	1000 / 1500	2943	2353	19500	21500	2.30 x 10 ⁴	130	1000	60	150	300/3	1.7	2000	1.3	0.2	0.024	0.029	510	19.0 - 26.0	101A223
R655CH40-44	N	R1934ZC40x-44x	4000-4400	40-50	1934							1000 / 1500	3770	3390	25000	27500	2.80 x 10 ⁴	4000	3000	10	50	300/3	2.51	3000	1.2	0.437	0.011	0.022	1700	27.0 - 47.0	101A223
R880CH36-42	N	R1994ZC36x-42x	3600-4200	400-500	1994							1000 / 1500	3885	3490	18200	20000	1.66 x 10 ⁴	3500	3000	60	150	300/3	2.4	3000	1.18	0.408	0.011	0.022	1700	27.0 - 47.0	101A281
R500CH20-28	Y	R2475ZC20x-28x	1800-2100	60-70	2475							1000 / 1500	4980	4100	3100	3410	5.81 x 10 ⁴	4000	60	5700	300/3	2.55	4000	1.504	0.174	0.011	0.022	1700	27.0 - 47.0	101A281	
R600CH18-21	N	R25170Z18x-21x	1800-2100*	50-65	2550	6400	4900	3000	4800	3300	3000	1000 / 1500	5087	4390	33800	37200	6.92 x 10 ⁴	1100	8000	60	300	300/3	2.0	4000	1.3	0.175	0.011	0.012	1700	27.0 - 47.0	101A223
R610CH20-25	N	R2620ZC20x-25x	2200-2500	50-65	2615							1000 / 1500	5210	4390	33800	37200	6.92 x 10 ⁴	1400	8000	60	300	300/3	2.0	4000	1.3	0.175	0.011	0.022	1700	26.0 - 46.0	101A281
R800CH16-18	N	R27170Z16x-18x	1600-1800	40-60	2700	7000	4100	3100	4700	3500	3000	1000 / 1500	5260	4560	35600	39000	7.61 x 10 ⁴	700	8000	60	300	300/3	1.9	4000	1.25	0.163	0.011	0.012	1700	27.0 - 47.0	101A223
R18A3CH24-28	Y	R2847ZC24x-28x	2000-2800	60-70	3047							500 / 1000	6094	5097	5000	5500	15.1 x 10 ⁴	950	5000	60	200	600/3	2.45	5000	1.581	0.171	0.008	0.016	1200	63.0 - 77.0	101A225
R18A3CH10-12	N	R3375ZC10x-12x	1000-1200	15-25	3375	9900	6600	4700	6800	5000	4000	1000 / 1500	6860	5480	43900	48300	11.7 x 10 ⁴	225	8000	60	300	300/3	1.54	4000	1.22	0.08	0.011	0.012	1700	27.0 - 47.0	101A223
R19A6CH16-20	Y	R3559ZC16x-20x	1600-2000	60-100	3559							1000 / 1500	7060	6038	38900	42700	9.12 x 10 ⁴	n/a	8000	60	300	600/3	1.95	5000	1.173	0.155	0.008	0.016	1200	63.0 - 77.0	101A225
R1785CH40-45	Y	R3708FC40x-45x	4000-4500	25-30	3708							500 / 1000	7384	6275	50000	55000	15.13 x 10 ⁴	4000	4000	60	150 / 300	600/3	2.1	4000	1.473	0.156	0.0065	0.013	2800	81.0 - 99.0	101A222
D115CH2-36	N	R1127NC32x-36x	3200-3600	140-200	1127	3200	2350	1750	2300	1550	1300	1000 / 1500	2130	1800	12600	14100	994 x 10 ³	1350	1000	60	100	300/3	2.42	2000	1.39	0.514	0.022	0.024	510	19.0 - 26.0	101A223
D150CH4-26	N	R1158NC24x-26x	2400-2600	100-120	1157	3250	2200	1650	2000	1400	1160	1000 / 1500	2177	1840	14500	15950	1.27 x 10 ⁴	700	1000	60	150	300/3	2.4	2000	1.6	0.4	0.022	0.024	510	19.0 - 26.0	101A223
D390CH18-21	N	R1280NC18x-21x	1800-2100*	50-70	1280	3800	2800	2100	2400	1900	1800	1000 / 1500	2426	1988	14800	16300	1.33 x 10 ⁴	840	1000	60	150	300/3	2.1	2000	1.44	0.33	0.022	0.024	510	19.0 - 26.0	101A223
D391CH2-25	N	R1279NC20x-25x	2200-2500	50-70	1280	3800	2800	2100	2400	1900	1600	500 / 1000	2426	1988	14800	16300	1.33 x 10 ⁴	920	1000	60	150	300/3	2.1	2000	1.44	0.33	0.022	0.024	510	19.0 - 26.0	101A223
D405CH14-18	N	R1448NC14x-18x	1400-1800	40-65	1448	4900	3																								