

FAST SWITCHING DEVICE -Distributed Gate Thyristors - Capsule Type

Old Part Number	PDF Data Sheet Available	New Part Number	V _{DRM} V _{R_{RRM}} Range Note 3 (V)	Tq 200V/ms (ms)	I _{TAV} T _{HS} 55°C (A)	I _{TRM} (A) 50% Duty Cycle T _{SINK} 55°C						di/dt Rep/Non-Rep (A/ms)	I _{TRMS} 25°C (A)	I _T 25°C (A)	I _{TSM(1)} V _R <60% V _{R_{RRM}} Tj 125oC 10ms Note 1 (A)	I _{TSM(2)} 10ms V _R £10V Tj 125°C 10ms (A)	I ² t(2) Tj 125oC 10ms (A ² s)	Typical Recovered Charge at 125°C, 50% Chord			I _{DRM} I _{RRM} @ Tj Max. (mA)	I _{GT} V _{GT} (mA/V)	V _{TM} at I _T at 125°C		V _o r _s at 125°C (Note 2) (V) (mW)		Rth j-sink d.c & 180° sine (K/W) 120° Rect. (K/W)		Wt (typ) (g)	Mounting Force (kN)	Outline No.
						Sine Wave (Typical)			Square Wave 100A/msec (Typical)									at I _{TM} & dir/dt					(V) (A)								
						1 KHz	5 KHz	10 KHz	1KHz	5KHz	10KHz							(mC)	(A)	(A/ms)			(V)	(A)	(V)	(mW)	(K/W)	(K/W)			
R210SH12-14*	Y	R0487YS12x-14x	1200-1400	20-30	487	1200	1060	890	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	R0577YS10x-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	
R216SH10-12	Y	R0633YS10x-12x	1000-1200	20-30	633	1750	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	
R180SH10-12	Y	R0809LS10x	1000	12-20	809	2200	1700	1400	1500	1200	1050	1000 / 1500	1691	1260	8000	8800	387 x 10 ³	60	1000	60	70	300/3	2.52	1400	2.1	0.3	0.032		340	10.0 - 20.0	101A336
R181SH14-16	Y	R0717LS14x-16x	1400-1600	35-50	717							1000 / 1500	1439	1191	7050	7800	304.2 x 10 ³	150	1000	60	70	300/3	2.8	1400	1.752	0.732	0.032		340	10.0 - 20.0	
R175SH20-25	Y	R0736LS20x-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	
R190SH12-14	Y	R0830LS12x-14x	1200-1400	20-35	830	2600	2050	1650	1650	1450	1350	1000 / 1500	1715	1320	8500	9350	437 x 10 ³	110	1000	60	70	300/3	2.4	1400	1.9	0.357	0.032	0.041	340	10.0 - 20.0	
R200SH16-18	N	R0879LS16x-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	
R219SH10-12	Y	R0929LS10x-12x	1000-1200	15-25	929	2700	2100	1650	1800	1500	1350	1000 / 1500	1893	1505	9000	9900	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	
R220SH10-12	Y	R0964LS10x-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	
R270SH06-08	Y	R0990LS06x-08x	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	
R295CH36-40	Y	R0890NS36x-40x	3600-4000	50-100	890							1000 / 1500	1755	1525	10900	12000	7.20 x 10 ⁵		1000	60	100	300/3	2.98	1830	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	2200	1600	2100	1500	1300	1000 / 1500	2268	1855	13500	15000	1.13 x 10 ⁶	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 ⁶	170	1000	60	150	300/3	2.2	2000	1.6	0.3	0.024	0.029	510	19.0 - 26.0	
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 ⁶	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	R1275NS10x-12x	1000-1200	20-35	1275	3800	2700	2100	2600	2000	1800	1000 / 1500	2600	2050	18000	19800	1.96 x 10 ⁶	135	1000	60	150	300/3	2.02	2000	1.55	0.236	0.024	0.029	510	19.0 - 26.0	101A337
R395SH16-18	N	R1293NS16x-18x	1600-2100*	65-70	1293	3900	2500	1900	2500	1900	1600	1000 / 1500	2594	2144	15500	17000	1.45 x 10 ⁶	420	1000	60	150	300/3	1.9	2000	1.3	0.3	0.024	0.029	510	19.0 - 26.0	
R400SH10-12	Y	R1446NS10x-12x	1000-1200	25-35	1446	4600	3100	2300	2900	2300	2100	1000 / 1500	2943	2353	19500	21500	2.30 x 10 ⁶	130	1000	60	150	300/3	1.7	2000	1.3	0.2	0.024	0.029	510	19.0 - 26.0	
P855CH40-44	N	R1934ZC40x-44x	4000-4400	40-50	1934							1000 / 1500	3770	3390	25000	27500	2.80 x 10 ⁶	4000	3000	10	50	300/3	2.51	3000	1.2	0.437	0.011	0.022	1700	27.0 - 47.0	101A223
P880CH36-42	N	R1994ZC36x-42x	3600-4200	400-500	1994							1000 / 1500	3885	3490	18200	20000	1.66 x 10 ⁶	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 ⁶		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	R2619ZC18x-21x	1800-2100†	50-65	2619	6400	4000	3000	4400	3300	3000	1000 / 1500	5087	4390	33800	37200	6.92 x 10 ⁶	1100	4000	60	300	300/3	2.0	4000	1.3	0.175	0.011	0.012	1700	27.0 - 47.0	101A223
R610CH22-25	N	R2620ZC22x-25x	2200-2500	50-65	2615							1000 / 500	5210	4390	33800	37200	6.92 x 10 ⁶	1460	4000	60	300	300/3	2.0	4000	1.3	0.175	0.011	0.022	1700	26.0 - 46.0	101A281
R800CH16-18	N	R2717ZC16x-18x	1600-1800	40-60	2700	7000	4100	3100	4700	3500	3000	1000 / 1500	5260	4560	35600	39000	7.61 x 10 ⁶	700	4000	60	300	300/3	1.9	4000	1.25	0.163	0.011	0.012	1700	27.0 - 47.0	101A223
R1863CH24-28	Y	R3047TC24x-28x	2000-2800	60-70	3047							500 / 1000	6094	5097	5000	5500	15.1 x 10 ⁶	950	5000	60	200	600/3	2.45	5000	1.581	0.171	0.008	0.016	1230	63.0 - 77.0	101A325
R1200CH10-12	N	R3375ZC10x-12x	1000-1200	15-25	3375	9900	6600	4700	6800	7500	8000	1000 / 1500	6860	5480	43900	48300	11.7 x 10 ⁶	225	4000	60	300	300/3	1.54	4000	1.22	0.08	0.011	0.012	1700	27.0 - 47.0	101A223
R1966CH16-20	Y	R3559TC16x-20x	1600-2000	60-100	3559							1000/1500	7060	6038	38900	42700	9.12 x 10 ⁶	n/a	4000	60	300	600/3	1.95	5000	1.173	0.155	0.008	0.016	1230	63.0 - 77.0	101A325
R1386CH40-45	Y	R3708FC40x-45x	4000-4500	25-30	3708							500 / 1000	7364	6275	50000	55000	15.13 x 10 ⁶	4000	4000	60	150 / 300	600/3	2.1	4000	1.473	0.156	0.0065	0.013	2800	81.0 - 99.0	101A322
D315CH32-36	N	R1127NC32x-36x	3200-3600	140-200	1127	3200	2350	1750	2100	1550	1300	1000 / 1500	2110	1800	12800	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
D350CH24-26	N	R1158NC24x-26x	2400-2600	100-120	1157	3250	2200	1650	2000	1400	1160	1000 / 1500	2177	1840	14500	15950	1.27 x 10 ⁶	700	1000	60	100	300/3	2.4	2000	1.6	0.4	0.022	0.024	510	19.0 - 26.0	
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 ⁶	540	1000	60	150	300/3	2.1	2000	1.44	0.33	0.022	0.024	510	19.0 - 26.0	
D391CH22-25	N	R1279NC22x-25x	2200-2500	50-70	1280	3800	2800	2100	2400	1900	1600	500 / 1000	2426	1988	14800	16300	1.33 x 10 ⁶	920	1000	60	150	300/3	2.1	2000	1.44	0.33	0.022	0.024	510	19.0 - 26.0	
D405CH14-18	N	R1448NC14x-18x	1400-1800	40-65	1448	4900	3100	2500	2800	2300	2000	1000 / 1500	2749	2240	15500	17000	1.45 x 10 ⁶	500													