RECTIFIER DEVICE - Phase Control Thyristors - Stud Types

Old Part Number	PDF Data Sheet Available	New Part Number	V_{DRM} V_{RRM} Range Note 5 (V)	$I_{T(AV)}$ at T_{SINK} 25°C (A)	(T_{SINK} °C)	$I_{T(RMS)}$ at T_{SINK} 25°C (A)	I_T at T_{SINK} 25°C (A)	$I_{TSM(1)}$ 10ms V_R £60% V_{RRM} Note 1 (A)	$I_{TSM(2)}$ 10ms V_R £10V V_{RRM} Note 1 (A)	$I^2t_{(2)}$ Note 1 (A2s)	di/dt Non-Rep /Rep Note 4 (A/µs)	I_{GT}/V_{GT} at 25°C (mA)/(V)	I_{DRM} I_{RRM} at 125°C (mA)	I_H at 25°C (mA)	Rth j-c dc 180°sine (K/W)	Rth j-c 120° Rect (K/W)	Rth c-s (K/W)	V_o r at Tj 125°C Note 2 (V_o) (V)	r (mW)	V_{TM} at I_{TM} at Tj 125°C (V) / (A)	Wt (typ.) (g)	Mounting Torque (kgfm^{-1})	Outline No. (Note 4)
N086PH12-16	N	N0131SP120-160	1200-1600	131	(55)	175	175	1700	1950	19 x 10^3	1000/500	150/3	20	600	0.23	0.28	0.08	1.57	2.29	2.29/315	130	1.45 - 1.15	101A235 or 101A231
N105PH12-16	N	N0180SP120-160	1200-1600	180	(55)	175	175	2450	2695	36.3 x 10^3	1000/500	150/3	20	600	0.23	0.28	0.08	0.90	1.79	1.46/315	130	1.45 - 1.15	
N170PH12-16	N	N0290SP120-160	1200-1600	290	(55)	355	355	4200	4620	107 x 10^3	1000/500	150/3	20	600	0.12	0.14	0.04	1.08	1.30	1.98/690	280	2.77 - 2.5	101A225
N195PH12-16	N	N0335SP120-160	1200-1600	335	(55)	355	355	4650	5120	131 x 10^3	1000/500	150/3	20	600	0.12	0.14	0.04	0.92	0.99	1.60/690	280	2.77 - 2.5	
N275PH02-08	N	N0416SP020-080	200-800	416	(55)	355	355	6000	6600	218 x 10^3	1000/500	150/3	20	400	0.12	0.14	0.04	0.85	0.535	1.22/690	280	2.77 - 2.5	

Note 1 I_{TSM} (8.3ms) = I_{TSM} (10ms) x 1.066 I^2t (8.3ms) = I^2t (10ms) x 0.943

Note 2 V_o Threshold Voltage
r Slope resistance) for conduction loss and heatsink calculations. (Tj = 125°C)

Note 3 A blocking voltage derating factor of 0.13% per degree centigrade is applicable for Tj below 25°C

Note 4 di/dt ratings refer to the sum of snubber discharge and load currents.

Note 5 Outline 101A153 - leaded types available, code changes from RH to PH. Lead length 146mm (base of hexagon to centre of lug hole).