

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) (°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 ² t ₍₂₎ Note 1 (A2s)	di/dt Non-Rep /Rep Note 4 (A/ms)	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) 120° Rect (K/W)		Rth c-s (K/W)	V _o r at T _j 125°C Note 2 (V) (mW)	V _{TM} at I _{TM} at T _j 125°C (V) / (A)	Wt (typ.) (g)	Mounting Torque (kgfm ⁻¹)	Outline No. (Note 4)
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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	

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- Note 1

Note 2

Note 3

Note 4

Note 5
- I_{TSM} (8.3ms) = I_{TSM} (10ms) x 1.066

V_o Threshold Voltage

r Slope resistance

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

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

Outline 101A153 - leaded types available, code changes from RH to PH. Lead length 146mm (base of hexagon to centre of lug hole).
- I²t (8.3ms) = I²t (10ms) x 0.943

) for conduction loss and heatsink calculations. (T_j = 125°C)