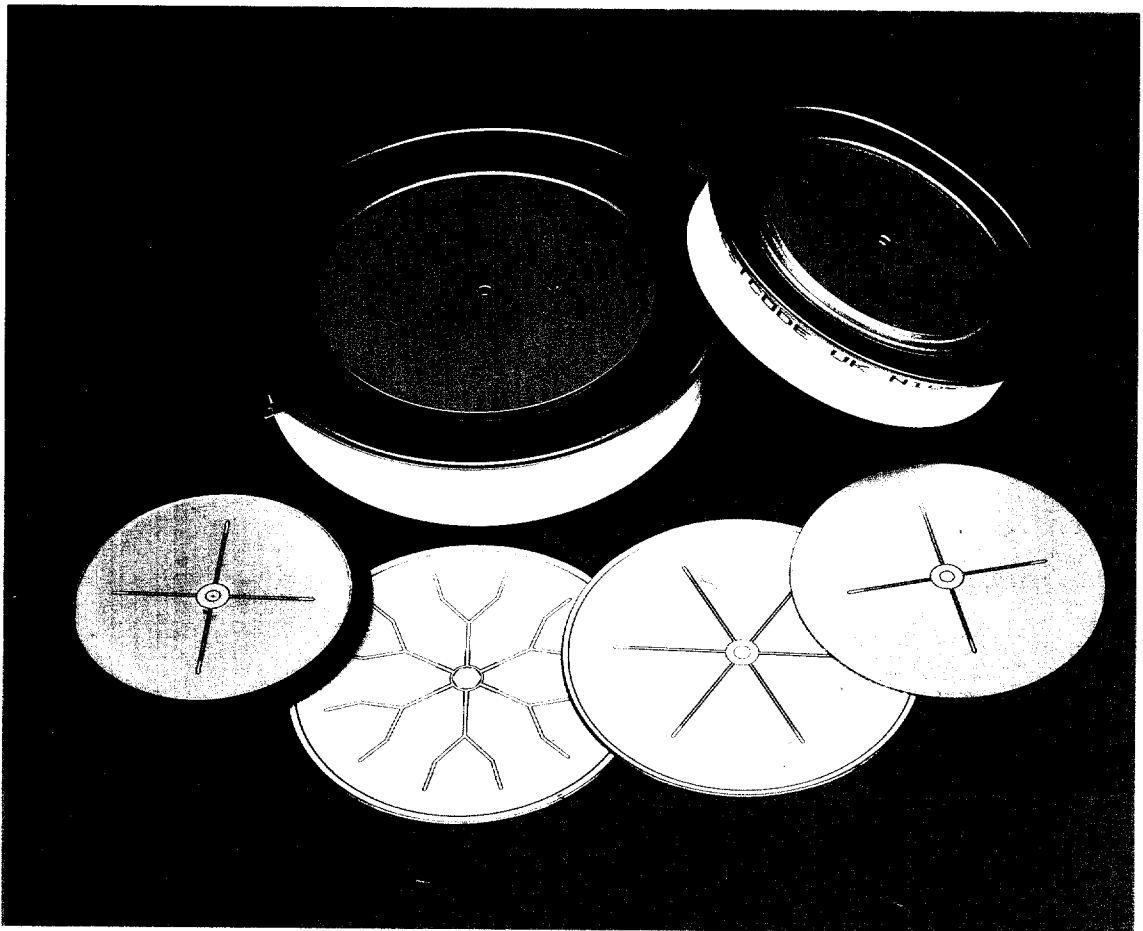


# WESTCODE

## ***Large Area Phase Control Thyristors***



WESLS00024

*Positive Development in Power Electronics*

WESLS00024

## 87 and 100mm Phase Control Thyristors

| Type            | V <sub>DRM</sub> /V <sub>RRM</sub> Range (V) | I <sub>T(AV)</sub> @ T <sub>ns</sub> 55°C (A) | I <sub>T(RMS)</sub> @ T <sub>ns</sub> 25°C (A) | I <sub>T</sub> @ T <sub>ns</sub> 25°C (A) | I <sub>TSM</sub> 10msec V <sub>RS</sub> 10V (kA) | I <sub>TSM</sub> 10msec V <sub>RS</sub> 60% V <sub>RRM</sub> (kA) | I <sub>TSM</sub> 10msec V <sub>RS</sub> 10V (kA) | dI/dt Non-Rep/Rep (3) (A/μsec) | I <sub>GT</sub> /V <sub>GT</sub> @ 25°C (mA/V) | I <sub>DRM</sub> I <sub>RRM</sub> @ T <sub>1</sub> Max (mA) | I <sub>ti</sub> @ 25°C (mA) | DC 180° sine (K/W) | Roθ-HS 120° Rect. (K/W) | V <sub>o</sub> @ T <sub>1</sub> Max (V) | τ @ T <sub>1</sub> Max (ms) | V <sub>TM</sub> @ I <sub>TM</sub> @ T <sub>1</sub> Max (V) | T <sub>1</sub> Range (°C) | Mounting Force (kN) | Fig No. | Type          |
|-----------------|--|---|--|---|--|---|--|--------------------------------|--|---|-----------------------------|--------------------|-------------------------|---|-----------------------------|--|---------------------------|---------------------|---------|---------------|
| <b>N1063DHX</b> | 5300-6500                                    | 2010  | 3930   | 3500                                      | 25.2   | 28.0  | 3.90   | 150/300                        | 300/3  | 600   | 1000                        | 0.011              | 0.0114                  | 1.20                                    | 0.385                       | 2.00   | 2000-40 to 115            | 63 - 77             | 1       | <b>N1063D</b> |
| <b>N1263CHX</b> | 4300-5200                                    | 2500  | 4880   | 4350                                      | 37.8   | 42.0  | 8.82   | 150/300                        | 300/3  | 500   | 1000                        | 0.011              | 0.0114                  | 1.00                                    | 0.25                        | 2.04   | 4000-40 to 125            | 63 - 77             | 1       | <b>N1263C</b> |
| <b>N1463CHX</b> | 3600-4200                                    | 2850  | 5590   | 4900                                      | 46.8   | 52.0  | 13.5   | 150/300                        | 300/3  | 250   | 1000                        | 0.011              | 0.0114                  | 0.97                                    | 0.18                        | 1.87   | 5000-40 to 125            | 63 - 77             | 1       | <b>N1463C</b> |
| <b>N1663CHX</b> | 2900-3500                                    | 3180  | 6260   | 5460                                      | 49.5   | 55.0  | 15.1   | 150/300                        | 300/3  | 250   | 1000                        | 0.011              | 0.0114                  | 0.90                                    | 0.14                        | 1.74   | 6000-40 to 125            | 63 - 77             | 1       | <b>N1663C</b> |
| <b>N1863CHX</b> | 1200-2800                                    | 3560  | 7080   | 6040                                      | 54.0   | 60.0  | 18.0   | 150/300                        | 300/3  | 250   | 1000                        | 0.011              | 0.0114                  | 0.90                                    | 0.10                        | 1.50   | 6000-40 to 125            | 63 - 77             | 1       | <b>N1863C</b> |
| <b>N1083CHX</b> | 5300-6500                                    | 2310  | 4680   | 4130                                      | 40.0   | 45.0  | 10.1   | 150/300                        | 300/3  | 600   | 1000                        | 0.009              | 0.0096                  | 1.22                                    | 0.29                        | 2.10   | 3000-40 to 115            | 81 - 98             | 2       | <b>N1083C</b> |
| <b>N1283CHX</b> | 4300-5200                                    | 2850  | 5550   | 5050                                      | 49.5   | 55.0  | 15.1   | 150/300                        | 300/3  | 600   | 1000                        | 0.009              | 0.0096                  | 0.92                                    | 0.25                        | 2.10   | 5000-40 to 125            | 81 - 98             | 2       | <b>N1283C</b> |
| <b>N1483CHX</b> | 3600-4200                                    | 3400  | 6650   | 5950                                      | 54.0   | 60.0  | 18.0   | 150/300                        | 300/3  | 400   | 1000                        | 0.009              | 0.0096                  | 0.85                                    | 0.17                        | 1.87   | 6000-40 to 125            | 81 - 98             | 2       | <b>N1483C</b> |
| <b>N1683CHX</b> | 2900-3500                                    | 3890  | 7680   | 6650                                      | 60.0   | 67.0  | 22.5   | 150/300                        | 300/3  | 300   | 1000                        | 0.009              | 0.0096                  | 0.94                                    | 0.11                        | 1.60   | 6000-40 to 125            | 81 - 98             | 2       | <b>N1683C</b> |
| <b>N1883CHX</b> | 1200-2800                                    | 4145  | 8170   | 7115                                      | 67.5   | 75.0  | 28.1   | 150/300                        | 300/3  | 300   | 1000                        | 0.009              | 0.0096                  | 0.85                                    | 0.10                        | 1.45   | 6000-40 to 125            | 81 - 98             | 2       | <b>N1883C</b> |

For up to date information on any of these devices, please contact Westcode for a complete data sheet.

Notes:  
 1) Advance Data  
 2) Tentative Data  
 3) Please contact Westcode for di/dt ratings in excess of 300A/μsec  
 4) Clamps:  
 63 to 77kN mounting force require a nominal 7000kgf clamp  
 81 to 98kN mounting force require a nominal 9000kgf clamp

Ordering: To complete the device part number, substitute the x in the type with the required voltage divided by 100. When critical dv/dt capability is required above 200V/μsec, please add one of the following codes:  
 300V/μsec GOO  
 400V/μsec HOO  
 500V/μsec JOO  
 Please contact Westcode for dv/dt in excess of 500V/μsec

Examples:  
 N1263CH52 : 5200 volt device with standard 200V/μsec critical dv/dt  
 N1483CH40HOO : 4000 volt device with 400V/μsec critical dv/dt

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Figure 1: CH - Dimension A = 27.1/26.1mm compressed height  
 DH - Dimension A = 36.5/35mm compressed height

Figure 2: CH - Dimension A = 36.5/35mm compressed height  
 DH - Dimension A = 36.5/35mm compressed height

In the interest of product improvement Westcode reserves the right to change specification at any time without notice