## Nomenclature

### Stud Devices

<table>
<thead>
<tr>
<th>Stud Devices</th>
<th>Device type</th>
<th>Device nominal current rating</th>
<th>Package</th>
<th>Voltage grade - $V_{RMM}, V_{DRM}/100$</th>
<th>$t_a$ code - See table for relevant code</th>
</tr>
</thead>
<tbody>
<tr>
<td>W 0508 S A 04 0</td>
<td>Rectifier diode</td>
<td></td>
<td>3/4&quot; stud glass/metal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WM NPS 0508 S R 04</td>
<td>Fast/Soft recovery diode</td>
<td></td>
<td>3/4&quot; stud ceramic</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Phase control thyristor</td>
<td></td>
<td>3/4&quot; HV ceramic stud with lug</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fast turn-off thyristor</td>
<td></td>
<td>3/4&quot; HV ceramic stud</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Symmetrical Gate turn-off thyristor</td>
<td></td>
<td>1/2&quot; ceramic stud</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Device polarity</td>
<td>1/2&quot; ceramic stud with flag</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stud Anode</td>
<td>Stud Cathode</td>
<td>M12 stud ceramic with lug</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Package</td>
<td>3/8&quot; stud ceramic</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>M20 stud ceramic with lug &amp; gate leads</td>
<td></td>
<td></td>
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</tbody>
</table>

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Press-pack IGBT capsule devices

<table>
<thead>
<tr>
<th>T</th>
<th>0240</th>
<th>N</th>
<th>B</th>
<th>45</th>
<th>E</th>
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<td>T</td>
<td>0240</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Device type**
Press-pack IGBT

**Device pulse current rating**
**Electrode diameter**
- 47mm
- 38mm
- 63mm
- 66mm
- 75mm
- 85mm
- 96mm
- 110mm
- 125mm
- 132mm

**Die series**

<table>
<thead>
<tr>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Voltage grade - \( V_{on} \) \( \text{V}_{100} \)**

**Build description for multiple square die**
- A Reverse conducting
- E Asymmetric
- G Reverse conducting (IGBT to diode ratio of 2:1)
### Capsule devices - excluding IGBT's

<table>
<thead>
<tr>
<th>W</th>
<th>0646</th>
<th>W</th>
<th>C</th>
<th>15</th>
<th>0</th>
</tr>
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<tr>
<td>W</td>
<td>0646</td>
<td>W</td>
<td></td>
<td>15</td>
<td>0</td>
</tr>
</tbody>
</table>

#### Device type
- Rectifier diode
- Fast/soft recovery diode
- Extra fast diode
- HP Sonic-FRD™
- Phase control thyristor
- Distributed gate thyristor
- Fast turn-off thyristor
- Medium voltage thyristor
- Asymmetric thyristor
- Symmetrical gate turn-off thyristor
- Fast symmetrical gate turn-off thyristor
- Asymmetric gate turn-off thyristor
- Pulse Thyristor

#### Device nominal current rating
For devices exceeding 9999 Amperes, digit 5 of the part number changes to C (x100)

#### Electrode diameter
- 19mm
- 25mm
- 29mm
- 32mm
- 34mm
- 38mm
- 44mm
- 47mm
- 50mm
- 63mm
- 66mm/68mm
- 73mm
- 75mm
- 85mm
- 99mm
- 125mm

#### Housing type (electrode diameter in brackets)
- 26mm reverse build
- 8mm (D)
- Standard outline - 14mm (W, Y), 16mm (K), 26mm (L, Q, M, T, E, H), 26.5mm (N), 33mm (V), 36mm (F, G), 37mm (Z)
- 21mm (N), 24mm (V, Z), 26mm (F, G)
- 35mm inverse build (T, M, Q, E)
- 19.5mm (L), 26mm (K, N, V), 35mm (Z), 35mm (6.5kV Sonic Diodes)
- 35mm (L, N)
- 14mm (N), 26mm (Y)
- 19.5mm (N), 25.8mm (V), 26mm (T)
- Wespack 14.5mm (J, Q, M, H, N)
- Wespack 26mm (Q, M, H)
- Wespack 33mm (H)
- 14mm (W, Y), 26mm (L)
- Wespack 14mm (Q), 26mm (N)

#### Voltage grade - $V_{RRM}$, $V_{DRM}$/100

#### Special code
- 0 $I_f$ code (thyristors), $V_{IRM}$ % of $V_{DRM}$ for Gate turn-off thyristors - See relevant tables
- P PIN diode (Product groups: W, M, F, E)
- A Avalanche rated diode (W)
### Stud devices

All IXYS UK stud devices are available with or without leads, sleeving and nuts and washers

When ordering a stud based device, please add one of the following three-letter codes to the part number

- **000** - Leaded stud, no sleeving, no nuts and washers supplied (Default option)
- **S0L** - Leaded stud, with standard* sleeving, nuts and washers supplied loose
- **00L** - Leaded stud, no sleeving, nuts and washers supplied loose
- **NLL** - Non-leaded stud, nuts and washers supplied loose
- **S0F** - Leaded stud, with standard* sleeving, nuts and washers fitted
- **00F** - Leaded stud, no sleeving, nuts and washers fitted
- **NLF** - Non-leaded stud, nuts and washers fitted
- **S00** - Leaded stud, with standard* sleeving, no nuts and washers supplied
- **NLS** - Non-leaded stud, no sleeving, no nuts and washers supplied

* - Standard sleeving means the followings
  - Red for all thyristor studs
  - Blue for 'S' polarity diodes
  - Red for 'R' polarity diodes

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