|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **IGBT**  **Part Number** | **Process** | **Feature** | **Vces** | **Ic** | **Vce(sat)(V)** | **\*tf(ns)** | **Thickness** | **Die Size** | **Wafer Ø** | **Scribe Line** | **GPW** |
| **(V)** | **(A)** | **@25°C** | **@25°C** | **(um)** | **(mm x mm)** | **(mm)** | **(um)** |
| SGL120F125A | PLANAR FS | Low power consumption | 1200 | 125 | 2.0 | 104\* | 140 | 12.462x12.980 | 150 | 100 | 78 |
| SGL120F150A | PLANAR FS | Low power consumption | 1200 | 150 | 1.9 |  | 140 | 12.462x12.980 | 150 | 100 | 78 |
| SGU120T100A | NPT | Super fast | 1200 | 100 | 3.1 | 30\* | 180 | 12.462x12.980 | 150 | 200 | 78 |
| SGL120T100A | NPT | Low power consumption | 1200 | 100 | 2.0 | 181\* | 180 | 12.462x12.980 | 150 | 200 | 78 |
| SGU120T75A | NPT | Super fast | 1200 | 75 | 2.8 | 22\* | 180 | 11.168x11.189 | 150 | 200 | 101 |
| SGL120T75A | NPT | Low power consumption | 1200 | 75 | 2.0 | 37\* | 180 | 11.168x11.189 | 150 | 200 | 101 |
| SGL120F75A | PLANAR FS | Low power consumption | 1200 | 75 | 2.0 |  | 140 | 9.988x9.962 | 150 | 200 | 136 |
| SGL120S75B | Trench FS | Low power consumption | 1200 | 75 | 1.85 | 32\* | 120 | 9.120x8.102 | 200 | 80 | 345 |
| SGU120T50A | NPT | Super fast | 1200 | 50 | 2.8 | 24\* | 180 | 9.245x8.022 | 150 | 100 | 163 |
| SGL120T50A | NPT | Low power consumption | 1200 | 50 | 2.0 | 220\* | 180 | 9.245x8.022 | 150 | 100 | 163 |
| SGL120F40A | PLANAR FS | Low power consumption | 1200 | 40 | 2.1 | 18\* | 140 | 7.467x7.072 | 150 | 100 | 273 |
| SGU120S35B | Trench FS | Super fast | 1200 | 35 | 2.1 | 24\* | 120 | 6.449x6.299 | 200 | 80 | 643 |
| SGL120F15A | PLANAR FS | Low power consumption | 1200 | 15 | 2.0 |  | 140 | 4.700x4.530 | 150 | 60 | 697 |
| SGL120S15B | Trench FS | Low power consumption | 1200 | 15 | 1.85 | 121\* | 120 | 4.630x4.441 | 200 | 80 | 1292 |
| SGL120F25A | PLANAR FS | Low power consumption | 1200 | 25 | 2.0 |  | 140 | 6.350x5.650 | 150 | 60 | 396 |
| SGU075S50ES | Trench FS | Super fast+ Ultra-thin | 750 | 50 | 1.5 |  | 80 | 4.240x4.240 | 200 | 60 | 1460 |
| SGL065S150ES | Trench FS | Low power consumption+ Ultra-thin | 650 | 150 | 1.6 |  | 90 | 6.960x10.380 | 200 | 80 | 348 |
| SGL065S200ES | Trench FS | Low power consumption+ Ultra-thin | 650 | 200 | 1.6 |  | 90 | 9.640x9.760 | 200 | 80 | 268 |
| SGL120S200ES | Trench FS | Low power consumption+ Ultra-thin | 1200 | 200 | 1.8 |  | 135 | 15.990x12.080 | 200 | 80 | 120 |

**New IGBT short form specification.**