

**S-BAND RADAR TRANSISTORS**

The industry leader in S-Band Power, SGS-THOMSON offers a complete line of short, medium and long pulse transistors for civil and military radar applications up to 3.5 GHz. Refractory gold metallization and emitter site-ballasting ensure superior long-term reliability.

**2700-3500 MHz CLASS C, COMMON BASE, PULSED, S-BAND RADAR**

| PART NUMBER             | FREQ. (MHz) | P <sub>OUT</sub> MIN. (W) | P <sub>IN</sub> (W) | GAIN MIN. (dB) | $\eta_c$ MIN. (%) | V <sub>CC</sub> (V) | R <sub>TH(j-c)</sub> MAX. (°C/W) | PULSE WIDTH (μSEC) | DUTY CYCLE (%) | PACKAGE STYLE |
|-------------------------|-------------|---------------------------|---------------------|----------------|-------------------|---------------------|----------------------------------|--------------------|----------------|---------------|
| AM2729-110              | 2700-2900   | 105                       | 23.5                | 6.5            | 33                | 40                  | 0.4                              | 50                 | 10             | S138          |
| AM2729-125              | 2700-2900   | 125                       | 25                  | 7.0            | 35                | 40                  | 0.35                             | 50                 | 10             | S038          |
| AM82731-003             | 2700-3100   | 3.0                       | 0.80                | 5.7            | 27                | 30                  | 6.5                              | 100                | 10             | S042          |
| AM82731-006             | 2700-3100   | 5.5                       | 1.5                 | 5.6            | 27                | 30                  | 3.75                             | 100                | 10             | S042          |
| AM82731-012             | 2700-3100   | 12                        | 3.0                 | 6.0            | 30                | 40                  | 4.0                              | 100                | 10             | S036          |
| AM82731-025             | 2700-3100   | 25                        | 6.0                 | 6.2            | 30                | 40                  | 2.0                              | 100                | 10             | S036          |
| AM82731-050             | 2700-3100   | 50                        | 12.5                | 6.0            | 30                | 40                  | 0.75                             | 100                | 10             | S036          |
| AM2931-110              | 2900-3100   | 105                       | 25                  | 6.2            | 32                | 42                  | 0.40                             | 50                 | 10             | S138          |
| AM2931-125 <sup>†</sup> | 2900-3100   | 125                       | 25                  | 7.0            | 35                | 42                  | 0.35                             | 50                 | 10             | S038          |
| AM83135-001             | 3100-3500   | 1.0                       | 0.30                | 5.2            | 27                | 30                  | 13.0                             | 100                | 10             | S042          |
| AM83135-003             | 3100-3500   | 3.0                       | 0.80                | 5.7            | 27                | 30                  | 6.5                              | 100                | 10             | S042          |
| AM83135-005             | 3100-3500   | 5.0                       | 1.5                 | 5.2            | 27                | 30                  | 3.75                             | 100                | 10             | S042          |
| AM83135-010             | 3100-3500   | 10                        | 3.2                 | 5.0            | 30                | 40                  | 4.0                              | 100                | 10             | S064          |
| AM83135-015             | 3100-3500   | 15                        | 4.5                 | 5.2            | 30                | 40                  | 2.8                              | 100                | 10             | S064          |
| AM83135-030             | 3100-3500   | 30                        | 8.5                 | 5.5            | 30                | 40                  | 1.5                              | 100                | 10             | S064          |
| AM83135-040             | 3100-3500   | 40                        | 12.5                | 5.1            | 30                | 40                  | 1.2                              | 100                | 10             | S064          |
| AM83135-050             | 3100-3500   | 50                        | 15                  | 5.2            | 30                | 42                  | 0.40                             | 10                 | 10             | S064          |

<sup>†</sup> In Development