

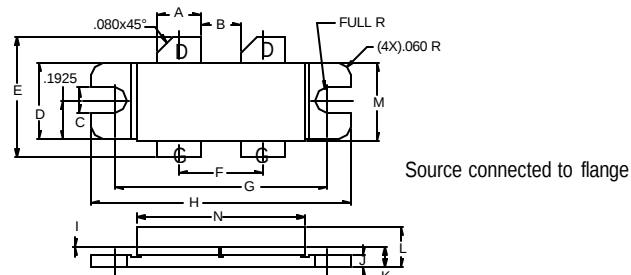
**DESCRIPTION:**

## FEATURES:

- ## MAXIMUM RATINGS

|                         |                                |
|-------------------------|--------------------------------|
| <b>I<sub>D</sub></b>    | 40 A                           |
| <b>V<sub>DSS</sub></b>  | 125 V                          |
| <b>V<sub>GS</sub></b>   | ± 40 V                         |
| <b>P<sub>DISS</sub></b> | 500 W @ T <sub>C</sub> = 25 °C |
| <b>T<sub>J</sub></b>    | -65 °C to +150 °C              |
| <b>T<sub>STG</sub></b>  | -65 °C to +200 °C              |
| <b>q<sub>JC</sub></b>   | 0.35 °C/W                      |

**PACKAGE STYLE .400 BAL FLG(D)**



| DIM | MINIMUM<br>inches / mm | MAXIMUM<br>inches / mm |
|-----|------------------------|------------------------|
| A   | .220 / 5.59            | .230 / 5.84            |
| B   | .210 / 5.33            |                        |
| C   | .125 / 3.18            |                        |
| D   | .380 / 9.65            | .390 / 9.91            |
| E   | .580 / 14.73           | .620 / 15.75           |
| F   | .435 / 11.05           |                        |
| G   | 1.090 / 27.69          | 1.105 / 28.07          |
| H   | 1.335 / 33.91          | 1.345 / 34.16          |
| I   | .003 / 0.08            | .007 / 0.18            |
| J   | .060 / 1.52            | .070 / 1.78            |
| K   | .100 / 2.54            | .115 / 2.92            |
| L   |                        | .230 / 5.84            |
| M   | .395 / 10.03           | .407 / 10.34           |
| N   | .850 / 21.59           | .870 / 22.10           |

**ORDER CODE: ASI10710**

### CHARACTERISTICS $T_C = 25^\circ\text{C}$

| SYMBOL                                                                     | TEST CONDITIONS                                                                                   | MINIMUM                        | TYPICAL          | MAXIMUM | UNITS                 |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------|------------------|---------|-----------------------|
| <b>BV<sub>DSS</sub></b>                                                    | I <sub>D</sub> = 50 mA                                                                            | 125                            |                  |         | <b>V</b>              |
| <b>I<sub>DSS</sub></b>                                                     | V <sub>DS</sub> = 50 V      V <sub>GS</sub> = 0 V                                                 |                                |                  | 5.0     | <b>mA</b>             |
| <b>I<sub>GSS</sub></b>                                                     | V <sub>DS</sub> = 0 V      V <sub>GS</sub> = 20 V                                                 |                                |                  | 1.0     | <b>mA</b>             |
| <b>V<sub>GS(th)</sub></b>                                                  | I <sub>D</sub> = 100 mA      V <sub>DS</sub> = 10 V                                               | 1.0                            |                  | 5.0     | <b>V</b>              |
| <b>g<sub>fs</sub></b>                                                      | I <sub>D</sub> = 5.0 A      V <sub>DS</sub> = 10 V                                                | 3,000                          |                  |         | <b>mS</b>             |
| <b>C<sub>iss</sub></b><br><b>C<sub>oss</sub></b><br><b>C<sub>rss</sub></b> | V <sub>DS</sub> = 50 V      V <sub>GS</sub> = 0 V      f = 1.0 MHz                                |                                | 350<br>250<br>20 |         | <b>pF</b>             |
| <b>P<sub>G</sub></b><br><b>h<sub>D</sub></b>                               | V <sub>DD</sub> = 50 V      I <sub>DQ</sub> = 500 mA      P <sub>out</sub> = 300 W<br>f = 175 MHz | 14<br>60                       | 15<br>65         |         | <b>dB</b><br><b>%</b> |
| <b>y</b>                                                                   | V <sub>SWR</sub> = 5:1 AT ALL PHASE ANGLES                                                        | NO DEGRADATION IN OUTPUT POWER |                  |         |                       |

ADVANCED SEMICONDUCTOR, INC.

REV. A

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*Specifications are subject to change without notice.*