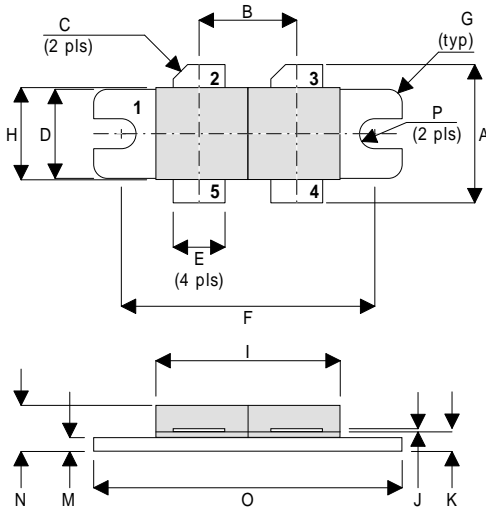


MECHANICAL DATA

TetraFET
100W – 28V – 900MHz



| DIM | mm | Tol. | Inches | Tol. |
|-----|-------|------|--------|-------|
| A | 19.05 | 0.50 | 0.75 | 0.020 |
| B | 10.77 | 0.13 | 0.424 | 0.005 |
| C | 45° | 5° | 45° | 5° |
| D | 9.78 | 0.13 | 0.385 | 0.005 |
| E | 5.71 | 0.13 | 0.225 | 0.005 |
| F | 27.94 | 0.13 | 1.100 | 0.005 |
| G | 1.52R | 0.13 | 0.060R | 0.005 |
| H | 10.16 | 0.13 | 0.400 | 0.005 |
| I | 22.22 | MAX | 0.875 | MAX |
| J | 0.13 | 0.02 | 0.005 | 0.001 |
| K | 2.72 | 0.13 | 0.107 | 0.005 |
| M | 1.70 | 0.13 | 0.067 | 0.005 |
| N | 5.08 | 0.50 | 0.200 | 0.020 |
| O | 34.03 | 0.13 | 1.340 | 0.005 |
| P | 1.57R | 0.08 | 0.062R | 0.003 |

PIN 1 SOURCE (COMMON) PIN 2 DRAIN 1
 PIN 3 DRAIN 2 PIN 4 GATE 2
 PIN 5 GATE 1

ELECTRICAL CHARACTERISTICS ($T_{case} = 25^{\circ}C$ unless otherwise stated)

| Parameter | Test Conditions | Min. | Typ. | Max. | Unit |
|---|---|--------------------------------------|------|------|---------|
| PER SIDE | | | | | |
| BV_{DSS} | Drain-Source Breakdown Voltage | $I = 100mA$ | 65 | | V |
| I_{DSS} | Zero Gate Voltage Drain Current | $V = 28V$ | | 4 | mA |
| I_{GSS} | Gate Leakage Current | $V = 20V$ | | 1 | μA |
| $V_{GS(th)}$ | Gate Threshold Voltage | $I = 10mA$ | 1 | 7 | V |
| g_m | * | $V = 10V$ $I = 3A$ $T = 300\mu S$ | | 3.2 | mhos |
| C_{iss} | Input Capacitance | $V_{DS} = 0V$ $V_{GS} = -5V$ | | 170 | pF |
| C_{oss} | Output Capacitance | $V = 28V$ | | 68 | pF |
| C_{rss} | Reverse Transfer Capacitance | $V = 28V$ | | 3.6 | pF |
| $V_{GS(th)match}$ | Gate Threshold Matching Voltage Between Sides | $I_D = 10mA$ $V_{DS} = V_{GS}$ | | 0.1 | V |
| TOTAL DEVICE | | | | | |
| $P_O = 100W$ $f = 900MHz$ $V = 28V$ $I_{DQ} = 3A$ | | | | | |
| Thermal Resistance = $0.6^{\circ}C / W$ | | | | | |

HAZARDOUS MATERIAL WARNING

The ceramic portion of the device between leads and metal flange is beryllium oxide. Beryllium oxide dust is highly toxic and care must be taken during handling and mounting to avoid damage to this area.

THESE DEVICES MUST NEVER BE THROWN AWAY WITH GENERAL INDUSTRIAL OR DOMESTIC WASTE.