

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

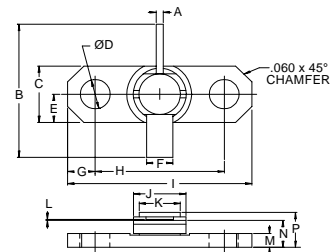
The **ASI MLN1033F** is Designed for Class A Linear Applications up to 1.0 GHz.

FEATURES:

- Class A Operation
- $P_G = 12$ dB at 2.0 W/1.0 GHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

| | |
|---------------|-----------------------------------|
| I_C | 0.5 A |
| V_{CB0} | 40 V |
| V_{CES} | 25 V |
| V_{EBO} | 3.5 V |
| P_{DISS} | 20.6 W @ $T_C = 25^\circ\text{C}$ |
| T_J | -65 °C to +200 °C |
| T_{STG} | -65 °C to +150 °C |
| θ_{JC} | 17 °C/W |

PACKAGE STYLE .250 2L FLG


| DIM | MINIMUM inches / mm | MAXIMUM inches / mm |
|-----|------------------------|------------------------|
| A | .028 / 0.71 | .032 / 0.81 |
| B | .740 / 18.80 | |
| C | .245 / 6.22 | .255 / 6.48 |
| D | .128 / 3.25 | .132 / 3.35 |
| E | | .125 / 3.18 |
| F | .110 / 2.79 | .117 / 2.97 |
| G | | .117 / 2.97 |
| H | .560 / 14.22 | .570 / 14.48 |
| I | .790 / 20.07 | .810 / 20.57 |
| J | .225 / 5.72 | .235 / 5.97 |
| K | .165 / 4.19 | .185 / 4.70 |
| L | .003 / 0.08 | .007 / 0.18 |
| M | .058 / 1.47 | .068 / 1.73 |
| N | .119 / 3.02 | .135 / 3.43 |
| P | .149 / 3.78 | .187 / 4.75 |

ORDER CODE: ASI10626
CHARACTERISTICS $T_C = 25^\circ\text{C}$

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------|--|---------|---------|---------|-------|
| BV_{CB0} | $I_C = 2.0$ mA | 40 | | | V |
| BV_{CEO} | $I_C = 5.0$ mA | 25 | | | V |
| BV_{EBO} | $I_E = 2.0$ mA | 3.5 | | | V |
| h_{FE} | $V_{CE} = 5.0$ V $I_C = 400$ mA | 15 | | 150 | --- |
| P_G | $V_{CE} = 18$ V $I_{CQ} = 220$ mA $f = 1.0$ GHz $P_{OUT} = 2.0$ W | 12 | | | dB |