

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The ASI UML1SL is Designed for

FEATURES:

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- **Omnigold™** Metalization System

MAXIMUM RATINGS

| | |
|-------------------------|---------------------------------|
| I_C | 2.0 A |
| V_{CB0} | 45 V |
| V_{CEO} | 25 V |
| V_{EBO} | 3.5 V |
| P_{DISS} | 31.8 W @ T _C = 25 °C |
| T_J | -65 °C to +200 °C |
| T_{STG} | -65 °C to +150 °C |
| θ_{JC} | 20 °C/W |

PACKAGE STYLE .280 4L PILL

| DIM | MINIMUM inches / mm | MAXIMUM inches / mm |
|-----|------------------------|------------------------|
| A | .220 / 5.59 | .230 / 5.84 |
| B | | 1.055 / 26.80 |
| C | .275 / 6.99 | .285 / 7.24 |
| D | .004 / 0.10 | .006 / 0.15 |
| E | .050 / 1.27 | .060 / 1.52 |
| F | .118 / 3.00 | .130 / 3.30 |

ORDER CODE: ASI10689

CHARACTERISTICS T_C = 25 °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|--|---|---------|---------|---------|-----------------------|
| BV_{CB0} | I _C = 1.0 mA | 45 | | | V |
| BV_{CEO} | I _C = 20 mA | 24 | | | V |
| BV_{EBO} | I _E = 0.25 mA | 3.5 | | | V |
| I_{CB0} | V _{CB} = 28 V | | | 0.45 | mA |
| h_{FE} | V _{CE} = 5.0 V I _C = 100 mA | 15 | | 120 | --- |
| C_{ob} | V _{CB} = 28 V f = 1.0 MHz | | | 5.0 | pF |
| P_G η_D | V _{CC} = 28 V P _{OUT} = 1.0 W f = 400 MHz | 13 | 60 | | dB % |