

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI ULBM5SL** is Designed for

FEATURES:

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- **Omnigold™** Metalization System

MAXIMUM RATINGS

| | |
|-------------------------|-------------------------------|
| I_C | 1.7 A |
| V_{CB0} | 36 V |
| V_{CER} | 16 V |
| V_{CES} | 36 V |
| V_{EBO} | 4.0 V |
| P_{DISS} | 15 W @ T _C = 25 °C |
| T_J | -65 °C to +200 °C |
| T_{STG} | -65 °C to +150 °C |
| θ_{JC} | 12 °C/W |

PACKAGE STYLE .280 4L STUD

| DIM | MINIMUM inches / mm | MAXIMUM inches / mm |
|-----|------------------------|------------------------|
| A | 1.010 / 25.65 | 1.055 / 26.80 |
| B | .220 / 5.59 | .230 / 5.84 |
| C | .270 / 6.86 | .285 / 7.24 |
| D | .003 / 0.08 | .007 / 0.18 |
| E | .117 / 2.97 | .137 / 3.48 |
| F | .572 / 14.53 | |
| G | .130 / 3.30 | |
| H | .245 / 6.22 | .255 / 6.48 |
| I | .640 / 16.26 | |
| J | .175 / 4.45 | .217 / 5.51 |
| K | .275 / 6.99 | .285 / 7.24 |

ORDER CODE: ASI10681

CHARACTERISTICS T_C = 25 °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|--|--|---------|---------|---------|-----------------------|
| BV_{CEO} | I _C = 50 mA | 16 | | | V |
| BV_{CES} | I _C = 10 mA | 36 | | | V |
| BV_{EBO} | I _E = 2.0 mA | 4.0 | | | V |
| I_{CER} | V _{CE} = 10 V R _{BE} = 50 Ω | | | 0.5 | mA |
| I_{CB0} | V _{CB} = 15 V | | | 1.0 | mA |
| h_{FE} | V _{CE} = 5.0 V I _C = 1.0 A | 10 | | 100 | --- |
| C_{ob} | V _{CB} = 7.5 V f = 1.0 MHz | | | 22 | pF |
| P_G η_C | V _{CC} = 7.5 V P _{OUT} = 5.0 W f = 470 MHz | 8.5 | 60 | | dB % |