

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

The **ASI SD1275-01** is Designed for Class C, 13.6 V High Band Applications up to 160 MHz.

FEATURES:

- Common Emitter
- $P_G = 9$ dB at 5 W/160 MHz
- **Omnigold™** Metalization System

MAXIMUM RATINGS

| | |
|---------------|----------------------|
| I_C | 8.0 A |
| V_{CBO} | 36 V |
| V_{CEO} | 16 V |
| V_{EBO} | 4.0 V |
| P_{DISS} | 70 W @ $T_C = 25$ °C |
| T_J | -65 °C to +200 °C |
| T_{STG} | -65 °C to +150 °C |
| θ_{JC} | 1.2 °C/W |

PACKAGE STYLE .380 4L FLG

| DIM | MINIMUM inches / mm | MAXIMUM inches / mm |
|-----|------------------------|------------------------|
| A | .220 / 5.59 | .230 / 5.84 |
| B | .785 / 19.94 | |
| C | .720 / 18.29 | .730 / 18.54 |
| D | .970 / 24.64 | .980 / 24.89 |
| E | | .385 / 9.78 |
| F | .004 / 0.10 | .006 / 0.15 |
| G | .085 / 2.16 | .105 / 2.67 |
| H | .160 / 4.06 | .180 / 4.57 |
| I | | .280 / 7.11 |
| J | .240 / 6.10 | .255 / 6.48 |

CHARACTERISTICS $T_C = 25$ °C

| SYMBOL | TEST CONDITIONS | | | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|-----------------|-------------------|------------------|---------------|---------|---------|---------|---------|
| BV_{CEO} | $I_C = 50$ mA | | | 16 | | | V |
| BV_{CES} | $I_C = 15$ mA | | | 36 | | | V |
| BV_{EBO} | $I_E = 5.0$ mA | | | 4.0 | | | V |
| I_{CBO} | $V_{CB} = 15$ V | | | | | 5.0 | mA |
| h_{FE} | $V_{CE} = 5.0$ V | $I_C = 250$ mA | | 20 | | --- | --- |
| C_{OB} | $V_{CB} = 15$ V | $f = 1.0$ MHz | | | 95 | | pF |
| P_G $POUT$ | $V_{CE} = 13.6$ V | $P_{IN} = 5.0$ W | $f = 160$ MHz | 9 | 60 | | dB % |

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