

NPN SILICON RF POWER TRANSISTOR

DESCRIPTION:

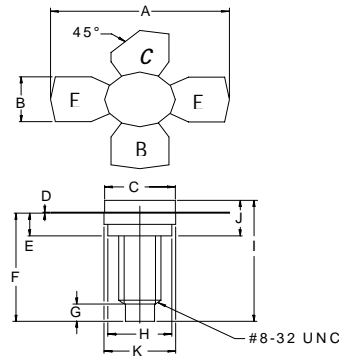
The **ASI 2SC2893** is Designed for use in UHF amplifiers up to 400 MHz.

FEATURES:

- $P_{OUT} = 10.7$ W Typical at 400 MHz
- **Omnigold™** Metallization System

MAXIMUM RATINGS

| | |
|---------------|----------------------|
| I_C | 1.5 A |
| V_{CB} | 55 V |
| V_{CE} | 32 V |
| V_{EB} | 3.0 V |
| P_{DISS} | 22 W @ $T_C = 25$ °C |
| T_J | -65 °C to +200 °C |
| T_{STG} | -65 °C to +150 °C |
| θ_{JC} | 8.0 °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 |

CHARACTERISTICS $T_C = 25$ °C

| SYMBOL | TEST CONDITIONS | MINIMUM | TYPICAL | MAXIMUM | UNITS |
|------------|--|---------|---------|---------|---------|
| BV_{CEO} | $I_C = 60$ mA | 32 | | | V |
| BV_{CES} | $I_C = 8.0$ mA $V_{BE} = 0$ V | 55 | | | V |
| I_{EBO} | $V_{CE} = 2.0$ V | | | 500 | μ A |
| I_{CBO} | $V_{CB} = 30$ V | | | 500 | μ A |
| h_{FE} | $V_{CE} = 10$ V $I_C = 400$ mA | 20 | | 200 | --- |
| C_{ob} | $V_{CB} = 28$ V $f = 1.0$ MHz | | 10 | 15 | pF |
| P_{out} | $V_{CE} = 28$ V $I_C = 400$ mA $f = 400$ MHz | 7.9 | 10.7 | | W |
| η_c | $P_{IN} = 0.63$ W | 55 | 65 | | % |