

TPR 1000

1000 Watts, 45 Volts, Pulsed Avionics 1090 MHz

| The TPI designed has gold includes | ERAL DESCRIPTION R 1000 is a high power COMMON B d for pulsed systems in the frequency thin-film metallization for proven h input returns for fast rise time . Low junction temperature, extends life. | ASE bipolar transistor. It is band 1090 MHz. The device ghest MTTF. The transistor | CASE OUTLINE 55KV, Style 1 Common Base |
|--|---|--|--|
| ABS | OLUTE MAXIMUM I | RATINGS | |
| | OLUTE MAXIMUM I Im Power Dissipation @ 25°C ² | RATINGS 2900 Watts | |
| Maximu | | | |
| Maximu Maxim u | m Power Dissipation @ 25°C ² | | |
| Maximu Maximu BVces | m Power Dissipation @ 25°C ² | 2900 Watts | |
| Maximu Maximu BVces | m Power Dissipation @ 25°C ² um Voltage and Current Collector to Base Voltage | 2900 Watts 65 Volts | |
| Maximu Maximu BVces BVebo Ic | m Power Dissipation @ 25°C ² Im Voltage and Current Collector to Base Voltage Emitter to Base Voltage | 2900 Watts 65 Volts 3.5 Volts | |
| Maximu Maximu BVces BVebo Ic Maximu | m Power Dissipation @ 25°C ² Im Voltage and Current Collector to Base Voltage Emitter to Base Voltage Collector Current | 2900 Watts 65 Volts 3.5 Volts | |

ELECTRICAL CHARACTERISTICS @ 25 °C

| SYMBOL | CHARACTERISTICS | TEST CONDITIONS | MIN | ТҮР | MAX | UNITS |
|--|--|---|-------------|-----|------------------|---------------------------------|
| Pout Pin Pg η _c t _r VSWR ¹ | Power Out Power Input Power Gain Collector Efficiency Rise Time Load Mismatch Tolerance | F = 1090 MHz Vcc = 45 Volts PW = 10 μsec DF = 1% F = 1030 MHz | 1000 6.0 | 43 | 250 70 9:1 | Watts Watts dB % ns |

Note 1: At rated output power and pulse conditions

- 2: At rated pulse conditions
- 3: Cannot measure due to input return
- 4: Per Side

Issue A June 1997

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