

## **TPR 1000**

1000 Watts, 45 Volts, Pulsed Avionics 1090 MHz

The TPI designed has gold includes	<b>ERAL DESCRIPTION</b> R 1000 is a high power COMMON B d for pulsed systems in the frequency thin-film metallization for proven h input returns for <b>fast rise time</b> . 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	
	<b>OLUTE MAXIMUM I</b> Im Power Dissipation @ 25°C <sup>2</sup>	RATINGS 2900 Watts	
Maximu			
Maximu <b>Maxim</b> u	m Power Dissipation @ 25°C <sup>2</sup>		
Maximu Maximu BVces	m Power Dissipation @ 25°C <sup>2</sup>	2900 Watts	
Maximu Maximu BVces	m Power Dissipation @ 25°C <sup>2</sup> <b>um Voltage and Current</b> Collector to Base Voltage	2900 Watts 65 Volts	
Maximu Maximu BVces BVebo Ic	m Power Dissipation @ 25°C <sup>2</sup> <b>Im Voltage and Current</b> 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 <sup>2</sup> <b>Im Voltage and Current</b> 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 <sub>c</sub> t <sub>r</sub> VSWR <sup>1</sup>	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

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