

BYI-1/1F/1T/1Z

BYISTORS FOR LINEAR POWER AMPLIFIERS

CASE OUTLINE

GENERAL DESCRIPTION

The BYI-1/1F/1T/1Z is a semiconductor device specifically designed for use in linear amplifier bias circuitry. The byistor acts as a low impedance D.C. bias source which has two modes for thermal compensation.

ABSOLUTE MAXIMUM RATINGS

Maximum Power Dissipation @ 25°C 11 Watts

Maximum Voltage and Current

BVces Collector to Emiter Voltage 55 Volts
BVebo Emitter to Base Voltage 4.0 Volts
Ic Collector Current 0.7 A

Maximum Temperatures

Storage Temperature $-65 \text{ to } +150^{\circ}\text{C}$ Operating Junction Temperature $+150^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS @ 25 °C

SYMBOL	CHARACTERISTICS	TEST CONDITIONS	MIN	TYP	MAX	UNITS
Pout Pin Pg Nc VSWR	Power Output Power Input Power Gain Efficiency Load Mismatch Tolerance	F = 400 MHz Vcc = 28 Volts	3 11.8	13 60	0.2	Watts Watts dB %

Cob \mathbf{h}_{FE} Collector to Base Breakdown Collector to Base CurrentVcb = $\overline{28}$ V, F = 1 MHz4.5 10p	\mathbf{h}_{FE}	Collector to Base Current Output Capacitance DC - Current Gain	MHz	4.0 55 30			Volts Volts Volts Volts mA pF
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