Outline Drawing No. 31

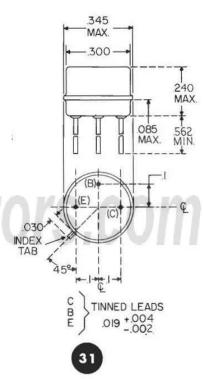
Outline Drawing No. 31

Outline Drawing No. 31

The 2N166 is a rate grown NPN germanium transistor intended for use in high frequency circuits by amateurs, hobbyists, and experimenters. The 2N166 can be used in any of the many published circuits where a low voltage, high frequency transistor is necessary, such as for regenerative receivers, high frequency oscillators, etc. If you desire to use the 2N166 NPN transistor in a circuit showing a PNP type transistor, it is only necessary to change the connections to the power supply.

SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS:		
Voltages Collector to Emitter	VCE	6 volts
Collector Current	Ic	20 ma
Power Collector Dissipation @ 25°C*	Pcm	25 mw
Temperature Range Operating and Storage	TA-TSTG	-55 to 50 °C
ELECTRICAL CHARACTERISTICS: (25°C)**		
High Frequency Characteristics		
(IE = 1 ma; VCE = 5v; f = 455 KC except as noted) Input Impedance (Common Emitter) Output Impedance (Common Emitter) Collector to Base Capacitance (f = 1 mc) Frequency Cutoff (VcB = 5V) Power Gain (Common Emitter)	Zi Zo Cob fab	800 ohms 15 K ohms 3 μμf 5 me 24 db
Low Frequency Characteristics		
(IE = 1 mo; VcE = 5v; f = 270 cps) Input Impedance Voltage Feedback Ratio Current Gain Output Admittance Common Emitter Base Current Gain	hib heb hib hob	55 ohms 4 x 10 ⁻⁴ .97 .3 x 10 ⁻⁶ μmhos 32
Cutoff Characteristics Collector Cutoff Current (VcB = 5v) *Derate 1 mw/°C increase in ambient temperature. **All values are typical unless indicated as a min. or max.	Ico	5 µа тах



http://alltransistors.com