

TECHNICAL INFORMATION

GERMANIUM TRANSISTOR

TYPE

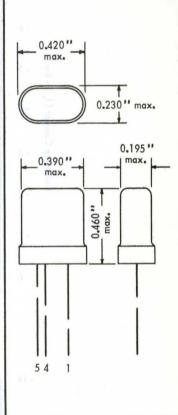
2N65

The 2N65 is a hermetically sealed PNP junction transistor intended primarily for use in audio or low radio frequency applications. The tinned flexible leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

Hence in Electron

MECHANICAL DATA

CASE: Metal and Glass		
BASE: None (0.016" tinned flexible leads. Length: 1.5" min. Spacing: Leads 1-4 0.144" center-to-center; Other Leads 0.048" center-to-center)		
TERMINAL CONNECTIONS :		
Lead 1 Collector Lead 4 Base Lead 5 Emitter		
MOUNTING POSITION : Any		
ELECTRICAL DATA		
RATINGS - ABSOLUTE MAXIMUM VALUES:		
Collector Voltage (Ŷc) Peak Collector Voltage (Vc)♦ ⊕	- 24	volts volts ma.
Collector Current Collector Dissipation ★ Emitter Current Ambient Temperature	10	ma. °C
AVERAGE CHARACTERISTICS: (at 27°C)		
Collector Voltage Emitter Current Collector Resistance Base Resistance Emitter Resistance Base Current Amplification Factor Cut-off Current (approx.) Noise Factor (max.) ●	1.0 2.0 1500 25 90 6	volts ma. meg. ohms ohms ohms μa. db
AVERAGE CHARACTERISTICS - COMMON EMITTER: (at 27°C)		
Collector Voltage- 1.5Emitter Current0.5Input Resistance4300Load Resistance20,000Power Gain (Matched Input)40	1.0 2700 20,000	volts ma. ohms ohms db
AVERAGE CHARACTERISTICS - COMMON COLLECTOR: (at 27°C))	
Collector Voltage Emitter Current Input Resistance ▲ Load Resistance Power Gain (Matched Input)	1.0 1.0 20,000	volts ma. meg. ohms db
AVERAGE CHARACTERISTICS - COMMON BASE : (at 27°C)		
Collector Voltage Emitter Current Input Resistance Load Resistance	1.0	volts ma. ohms meg.
Power (Cristalice Insut)		dh.



This is the maximum operating temperature recommended, However, characteristic damage will not result from occasional exposures to storage temperatures up to 100°C.

30 db.

• Measured under conditions for grounded emitter operation at Vcb=2.5 volts for 1 cycle bandwidth at 1000 cycles.

▲ Higher input impedances, without appreciable loss in gain, can be achieved by operating at lowered collector current.

* This is a function of maximum ambient temperature (TA) expected. It is approximately equal to 1.7 (85 o C-TA) milliwatts.

- Collector voltage Vce at which Ic rises to 2 ma, in common emitter circuit with base lead connected directly to emitter lead, Ambient temperature=25° C.
- D In circuits stabilized for Ic or Ie and which do not have critical distortion requirements, absolute maximum peak voltage is 45 volts.

Tentative Data

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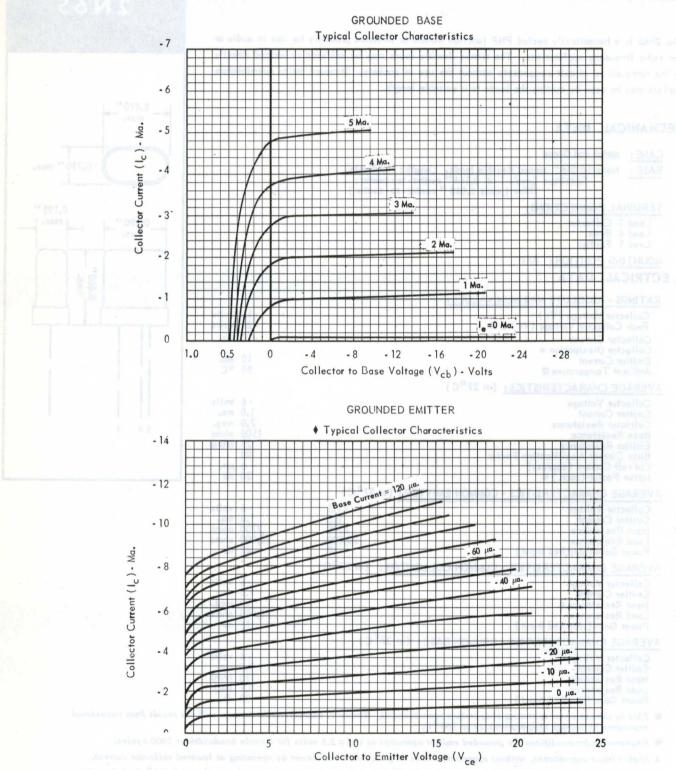
Power Gain (Matched Input)

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[†] This family is a function of 1- α and thus changes appreciably with small changes in α

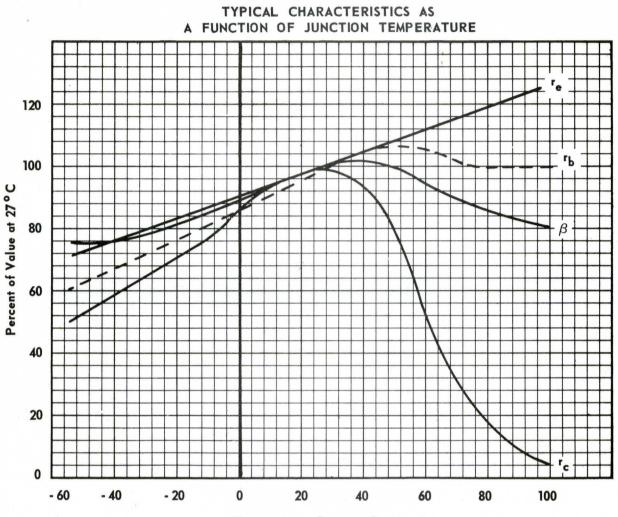
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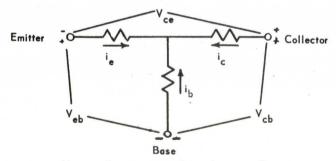
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GERMANIUM TRANSISTOR



Temperature - Degrees Centigrade



Arrows refer to positive electrode current flow.

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