TYPE 2N131

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The 2N 131 is a 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.

MECHANICAL DATA

CASE: Metal with insulating coating.

BASE: None (0.014" tinned flexible leads. Length: 1.5" mirt. Spacing: 0.04" center-to-center)

TERMINAL CONNECTIONS: (Red Dot is adjacent to Lead 1)

Lead 1 Collector Lead 2 Base

Lead 3 Emitter

MOUNTING POSITION: Any

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXI MUM VALUES:			
Collector Voltage (V _C) Peak Collector Voltage (V _C)⊕♦ Collector Current Collector Dissipation *		- 30	volts volts ma.
Emitter Current Ambient Temperature		10 85	ma. C
AVERAGE CHARACTERISTICS: (at 27°C)			
Collector Voltage Emitter Current Collector Resistance Base Resistance Emitter Resistance Base Current Amplification Factor		1.0 2.0 700	volts ma. meg. ohms ohms
Cut-off Current (approx.) Noise Factor (max.) ●		1.0	μα. db
AVERAGE CHARACTERISTICS - COMMON EMIT	TER: (at 27°C)		
Collector Voltage Emitter Current Input Resistance Load Resistance Power Gain (Matched Input)	- 1.5 0.5 2400 20,000 39	1.0	volts ma. ohms ohms db
AVERAGE CHARACTERISTICS - COMMON COLL	ECTOR: (at 27°C)		
Collector Voltage Emitter Current Input Resistance A Load Resistance Power Gain (Matched Input)		1.0	volts ma. meg. ohms db
AVERAGE CHARACTERISTICS - COMMON BASE	: (at 27°C)		
Collector Voltage Emitter Current Input Resistance Load Resistance Power Gain (Matched Input)			

0.200" max Nominal Radius (Bottom 0.070" 0.140" max. 0.180" max 0.310" 0.075" approx. Red Dot 3 2

- This is the maximum operating or storage temperature recommended.
- Measured under conditions for grounded emitter operation at Vcb=-2.5 volts for a 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 1.4 (85°C-TA) milliwatts in free air and to 3(85°C-TA) when the case is clipped to the chassis.
- ♦ In circuits stabilized for I c or I and which do not have critical distortion requirements, absolute maximum peak voltage is 60 volts.
- Collector voltage V ce at which I rises to 2 ma. in common emitter circuit with base lead connected directly to emitter lead.

 Ambient temperature = 25 ° C.

 The second of the common emitter circuit with base lead connected directly to emitter lead.

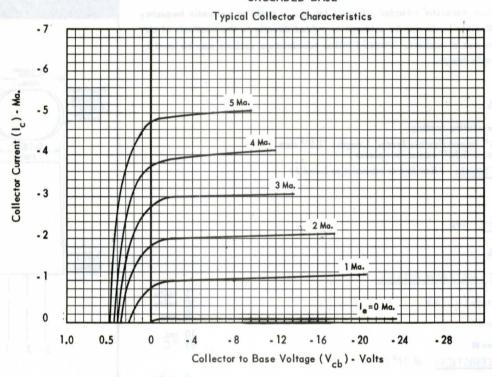
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RECEIVING AND CATHODE RAY TUBE OPERATIONS

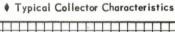


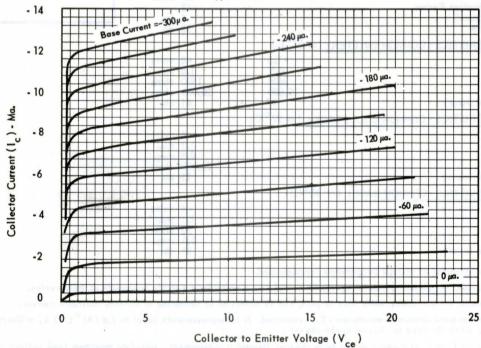
GERMANIUM TRANSISTOR

GROUNDED BASE



GROUNDE D EMITTER

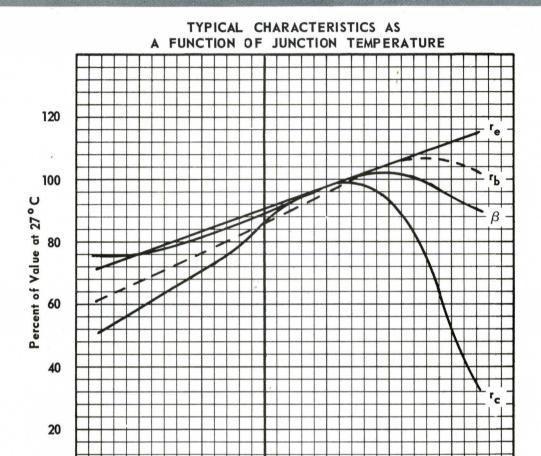




lacktriangledown This family is a function of 1-a and thus changes appreciably with small changes in $oldsymbol{a}$

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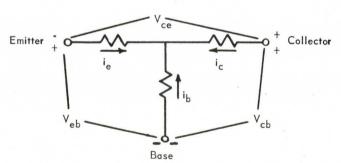
GERMANIUM TRANSISTOR



Temperature - Degrees Centigrade

20

60



Arrows refer to positive electrode current flow.

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RECEIVING AND CATHODE RAY TUBE OPERATIONS

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- 60

- 40

- 20