

2N63

The 2N63 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.

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

DATINGS ADSOLUTE MAYIMUM VALUES

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM	VALUES:		
Collector Voltage (V Peak Collector Voltage (V Collector Current		- 44	volts volts ma.
Collector Dissipation * Emitter Current Ambient Temperature ■			ma.
AVERAGE CHARACTERISTICS:	(at 27°C)		
Collector Voltage Emitter Current Collector Resistance Base Resistance Émitter Resistance Base Current Amplification Fact Cut-off Current (approx.) Noise Factor (max.)	GROUNCED EMITTER * Typical Collector Characteristics	1.0 2.0 350 25 22 6	volts ma. meg. ohms ohms
AVERAGE CHARACTERISTICS -	COMMON EMITTER: (at 27°C)		
Collector Voltage Emitter Current Input Resistance Load Resistance Power Gain (Matched Input)	-1.5 0.5 1400 20,000 37	1.0 800 20,000	volts ma. ohms ohms db
AVERAGE CHARACTERISTICS -	COMMON COLLECTOR: (at 27°C)		
Collector Voltage Emitter Current Input Resistance A Load Resistance Power Gain (Matched Input)		1.0 0.35 20,000	volts ma. meg. ohms db.
AVERAGE CHARACTERISTICS -	COMMON BASE: (at 27°C)		
Collector Voltage Emitter Current Input Resistance Load Resistance Power Gain (Matched Input)		1.0 50 0.1	volts ma. ohms meg. db
■ This is the maximum operating t	emperature recommended. However, characte	ristic dam	age will

0.420" max.
0.230" max.
0.390" — max.
0.460" max.
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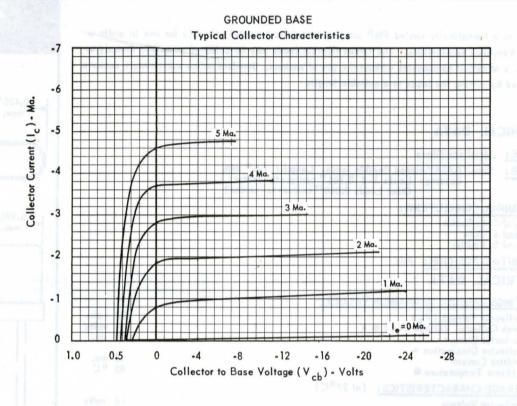
- exposures to storage temperatures up to 100° C.
- Measured under conditions for grounded emitter operation at Vcb=2.5 volts for a 1 cycle bandwidth at 1000 cycles.
- ▲ Higher input impedances, without appreciable loss in gain, can be achieved by operating at lowered collector current.
- * This is a function of maximum ambient temperature (TA) expected. It is approximately equal to 1.7 (85° C TA) milliwatts.
- ♦ In circuits stabilized for Ic or Ie and which do not have critical distortion requirements, absolute maximum peak voltage is 75 volts.
- \oplus Collector voltage V_{ce} at which Ic rises to 2 ma, in common emitter circuit with base lead connected directly to emitter lead. Ambient temperature = 25° C.

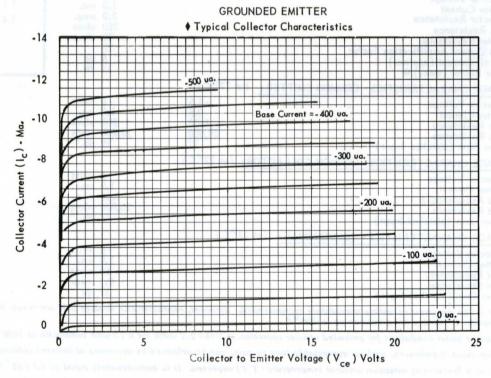
Tentative Data

MANUFACTURING RAYTHEON



GERMANIUM TRANSISTOR





♦ This family is a function of 1-a and thus changes appreciably with small changes in a.

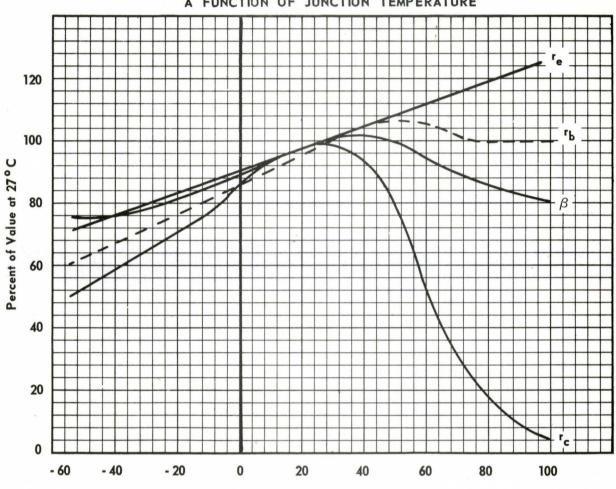
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RECEIVING AND CATHODE RAY TUBE OPERATIONS

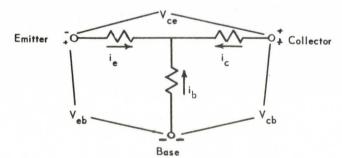


GERMANIUM TRANSISTOR

TYPICAL CHARACTERISTICS AS A FUNCTION OF JUNCTION TEMPERATURE



Temperature - Degrees Centigrade



Arrows refer to positive electrode current flow.

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