

TECHNICAL INFORMATION

GERMANIUM TRANSISTOR

YPE

CK725



The CK725 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.

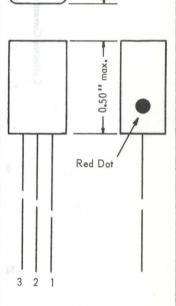
MECHANICAL DATA

CASE :	Plastic and Glass
BASE :	None (0.016" tinned flexible leads. Length: 1,5" min. Spacing: 0.08" center-to-center)
TERMIN	AL CONNECTIONS: (Red Dot is adjacent to Lead 1)
Lead	1 Collector 2 Base 3 Emitter
MOUNT	ING POSITION: Any

ELECTRICAL DATA

RATINGS - ABSOLUTE MAXIMUM	VALUES:	
Collector Voltage (Ŷc) Peak Collector Voltage (Vc) ♦ € Collector Current Collector Dissipation * Emitter Current	● -12 -24 -10 10	volts volts ma. °C
AVERAGE CHARACTERISTICS :	(at 27°C)	
Collector Voltage Emitter Current Collector Resistance Base Resistance Emitter Resistance Base Current Amplification Facto Cut-off Current (approx.) Noise Factor (max.) ●	1.0 2.0 1500 or 90	
AVERAGE CHARACTERISTICS - C	COMMON EMITTER: (at 27°C)	
Collector Voltage Emitter Current Input Resistance Load Resistance Power Gain (Matched Input)	0.5 1.0 4300 2700 20,000 20,000	volts ma. ohms ohms db.
AVERAGE CHARACTERISTICS - C	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 - C	COMMON BASE: (at 27°C)	
Collector Voltage Emitter Current Input Resistance Load Resistance Power Gain (Matched Input)	1.0	

0.29 " max.



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 4 (70° C-TA) milliwatts.

- In circuits stabilized for Ic or Ie, and which do not have critical distortion requirements, absolute maximum peak voltage is 45 volts.
- 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.

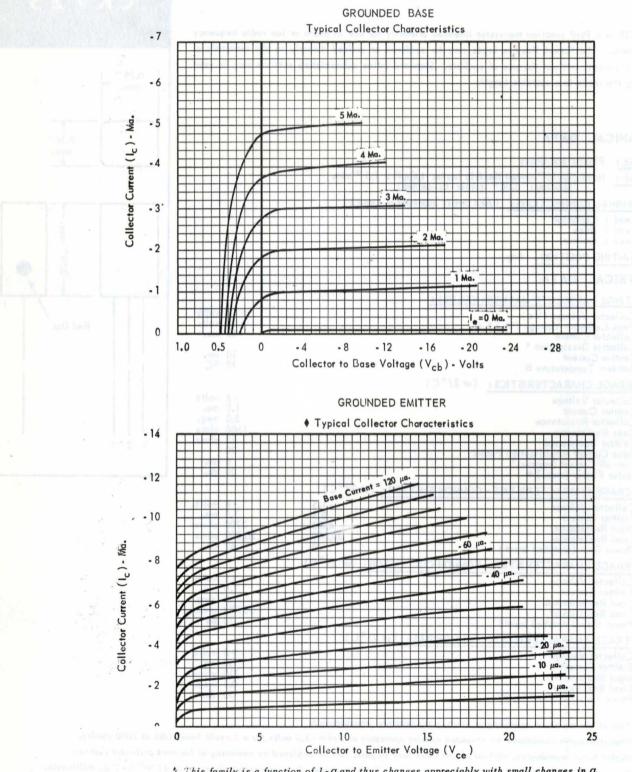
Tentative Data

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RECEIVING AND CATHODE RAY TUBE OPERATIONS



GERMANIUM TRANSISTOR



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

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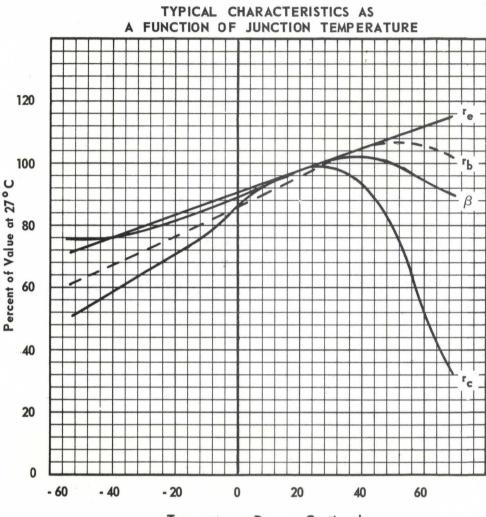
RECEIVING AND CATHODE RAY TUBE OPERATIONS

NEWTON 58, MASS.

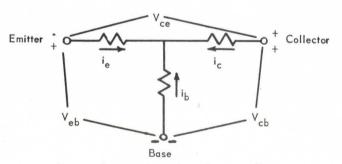
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Temperature - Degrees Centigrade



Arrows refer to positive electrode current flow.

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