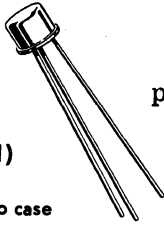


2N322 thru 2N324 (GERMANIUM) 2N508



CASE 31(1)
(TO-5)

Base connected to case

PNP germanium transistors for audio driver and low power output service in entertainment equipment.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Base Voltage	V_{CB}	18	Vdc
Collector-Emitter Voltage	V_{CEO}	18	Vdc
Emitter-Base Voltage	V_{EB}	5.0	Vdc
Collector Current	I_C	500	mAdc
Junction and Storage Temperature	T_J, T_{stg}	-65 to + 100	°C
Power Dissipation at 25°C Ambient	P_D	225	mW

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristics	Symbol	Min	Max	Unit
Collector Cutoff Current $V_{CB} = -16 \text{ Vdc}, I_E = 0$	I_{CBO}	—	16	μAdc
Emitter Cutoff Current $V_{EB} = -3 \text{ Vdc}, I_C = 0$	I_{EBO}	—	16	μAdc
Collector-Emitter Voltage $I_C = 0.6 \text{ mAdc}, R_{BE} = 5 \text{ K}$	BV_{CER}	18	—	Vdc
DC Current Gain $V_{CE} = -1 \text{ Vdc}, I_C = 20 \text{ mAdc}$	h_{FE}			—
		34	65	
		53	121	
		72	198	
		99	198	
Base Input Voltage $V_{CE} = -1 \text{ Vdc}, I_C = 20 \text{ mAdc}$	V_{BE}	180	320	mVdc
Output Capacitance; Input AC Open Circuit $V_{CB} = -5 \text{ Vdc}, I_E = 1 \text{ mAdc}, f = 1 \text{ MHz}$	C_{ob}	—	35	pF
Frequency Cutoff $V_{CB} = -5 \text{ Vdc}, I_E = 1 \text{ mAdc}$	f_{ob}			MHz
		1.0	—	
		1.5	—	
		2.0	—	
		2.5	—	