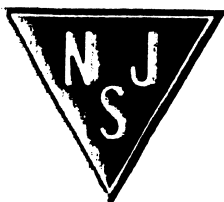
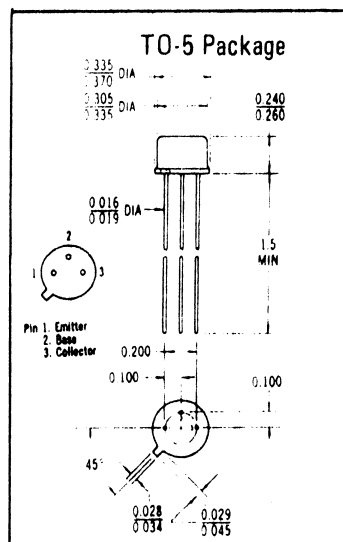


2N526 GERMANIUM)

PNP germanium transistor for switching and amplifier applications in the audio-frequency range.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Collector-Base Voltage	V_{CB}	45	Vdc
Collector-Emitter Voltage	V_{CEO}	30	Vdc
Emitter-Base Voltage	V_{EB}	15	Vdc
Collector Current	I_C	500	mAdc
Storage and Operating Temperature	T_{stg}, T_J	-65 to +100	°C
Collector Dissipation @ 25°C Ambient	P_D	225	mW
Thermal Resistance Junction to Ambient	θ_{JA}	0.333	°C/mW
Thermal Resistance (infinite heat sink)	θ_{JC}	0.15	°C/mW



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ELECTRICAL CHARACTERISTICS (T_c = 25°C unless otherwise noted)

Characteristics	Symbol	Min	Max	Unit
Collector Cutoff Current (V _{CB} = 30 Vdc, I _E = 0)	I _{CBO}	-	10	μAdc
Emitter Cutoff Current (V _{EB} = 15 Vdc, I _C = 0)	I _{EBO}	-	10	μAdc
Collector-Emitter Breakdown Voltage (I _C = 0.6 mAdc, R _{BE} = 10K)	BV _{CER}	30	-	μVdc
Collector-Emitter Reach Through (Punch-Thru) Voltage (V _{EB} = 1 Vdc, VTVM Z ≥ 1 Megohm)	V _{RT}	30	-	μVdc
Static Forward-Current Transfer Ratio (V _{CE} = 1 Vdc, I _C = 20 mAdc)	h _{FE}	53	90	-
Small-Signal Short-Circuit Forward Current Transfer Ratio Frequency Cutoff (V _{CB} = 5 Vdc, I _E = 1 mAdc)	f _{αb}	1.3	6.5	MHz
Output Capacitance (V _{CB} = 5 Vdc, I _E = 1 mAdc, f = 1 MHz)	C _{ob}	5.0	40	pF
Small-Signal Open Circuit Output Admittance (V _{CB} = 5 Vdc, I _E = 1 mAdc, f = 1 kHz)		0.10	1.0	
Small-Signal Open Circuit Reverse Transfer Voltage Ratio (V _{CB} = 5 Vdc, I _E = 1 mAdc, f = 1 kHz)	h _{rb}	1.0	12	X10 ⁻⁴
Small-Signal Short Circuit Input Impedance (V _{CB} = 5 Vdc, I _E = 1 mAdc, f = 1 kHz)	h _{ib}	26	33	ohms
Collector-Emitter Saturation Voltage (I _B = 1.0 mAdc, I _C = 20 mAdc)	V _{CE (sat)}		130	
Base Input Voltage (V _{CE} = 1 Vdc, I _C = 20 mAdc)	V _{BE}	190	280	
Noise Figure (V _{CB} = 5 Vdc, I _E = 1 mAdc, f = 1 kHz, BW = 1 Hz)	NF	-	15	dB
Small-Signal Short-Circuit Forward-Current Transfer Ratio (V _{CE} = 5 Vdc, I _E = 1 mAdc, f = 1 kHz)	h _{fe}	44	88	