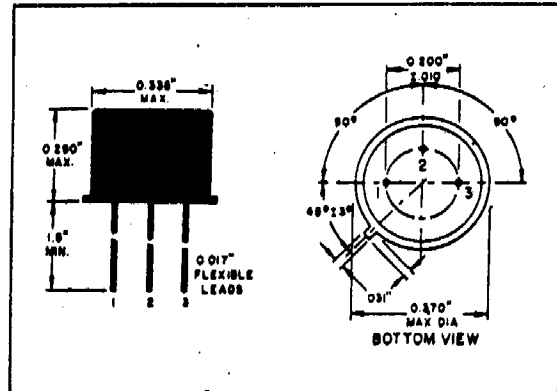


2N1034 2N1035
 2N1036 2N1037



MECHANICAL DATA

CASE: JEDEC TO-5
 TERMINAL CONNECTIONS:
 Lead 1 Emitter Lead 2 Base
 Lead 3 Collector (All leads isolated from case)

ELECTRICAL DATA

ABSOLUTE MAXIMUM RATINGS:

	2N1034	2N1035	2N1036	2N1037	
Collector to Base Voltage V_{CB0}	-50	-50	-50	-50	volts
Collector to Emitter Voltage V_{CE0}	-40	-35	-30	-35	volts
Emitter to Base Voltage V_{EB0}	-20	-20	-20	-20	volts
Total Device Dissipation					
@ Case Temperature 25°C	0.5	0.5	0.5	0.5	watts
@ Case Temperature 100°C	0.3	0.3	0.3	0.3	watts
@ Free Air Temperature 25°C	0.25	0.25	0.25	0.25	watts
Junction Temperature (Operating)					-65°C to +200°C
Storage Temperature					-65°C to +200°C



ELECTRICAL CHARACTERISTICS: (@ 25°C (unless otherwise noted))

	SYM.	CONDITIONS	2N1034		2N1035		2N1036		2N1037		UNITS
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
Collector to Base Breakdown Voltage	BV_{CBO}	$I_C = 100\mu A$	-50	....	-50	....	-50	....	-50	....	volts
Collector to Emitter Breakdown Voltage	BV_{CEO}	$I_C = 1mA$	-40	....	-35	....	-30	....	-35	....	volts
Emitter to Base Breakdown Voltage	BV_{EBO}	$I_E = 100\mu A$	-20	....	-20	....	-20	....	-20	....	volts
Collector Cutoff Current	I_{CBO1}	$V_{CB} = -30V$	....	1.0	....	1.0	....	1.0	....	1.0	μA
	I_{CBO2}	$V_{CB} = -30V,$ $T = 125^\circ C$	....	25.0	....	25.0	....	25.0	....	25.0	μA
Emitter Cutoff Current	I_{EBO1}	$V_{EB} = -20V$	....	1.0	....	1.0	....	1.0	....	1.0	μA
	I_{EBO2}	$V_{EB} = -20V,$ $T_A = 125^\circ C$	....	25.0	....	25.0	....	25.0	....	25.0	μA
Collector to Emitter Saturation Voltage	$V_{CE(Sat)}$	$I_C = 8mA,$ $I_B = 2mA$	....	-0.5	....	-0.4	....	-0.3	....	-0.5	volts
Input Resistance	h_{ie}	$V_{CE} = -6V,$ $I_C = 1mA,$ $f = 1kc$	....	3.0	....	3.0	....	3.0	....	3.0	K ohms

ELECTRICAL CHARACTERISTICS (cont.):

	SYM.	CONDITIONS	2N1034		2N1035		2N1036		2N1037		UNITS
			MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.	
Output Admittance	h_{oe}	$V_{CE} = -6V,$ $I_C = 1mA,$ $f = 1kc$	....	70	....	85	....	100	....	85	$\mu mhos$
Small Signal Current Gain	h_{fe1}	$V_{CE} = -6V,$ $I_C = 1mA,$ $f = 1kc$	9	22	18	42	34	88	9	42	....
High Frequency Small Signal Current Gain	h_{fe2}	$V_{CE} = -6V,$ $I_C = 1mA,$ $f = 100kc$	1.5	....	2.0	....	3.0	....	1.5	....	....
Collector Capacitance	C_{ob}	$V_{CE} = -6V,$ $I_C = 1mA,$ $f = 100kc$	....	110	....	110	....	110	....	110	pf
Noise Figure	NF	$f = 1kc,$ $R_g = 1k\Omega$	....	30	....	30	....	30	....	15	db