

20 STERN AVE.
 SPRINGFIELD, NEW JERSEY 07081
 U.S.A.

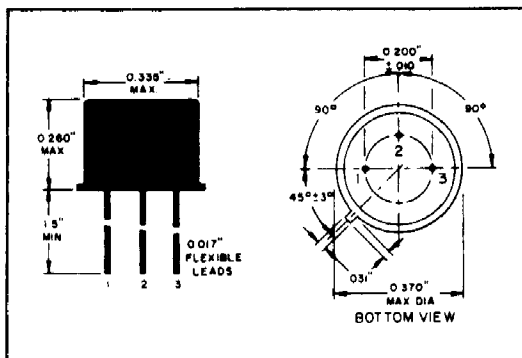
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2N497 2N498
2N656 2N657

**NPN SILICON PLANAR
 TRANSISTOR**

MECHANICAL DATA

CASE: JEDEC TO-5
 TERMINAL CONNECTIONS:
 Lead 1 Emitter Lead 2 Base
 Lead 3 Collector (Electrically connected to case)



ELECTRICAL DATA

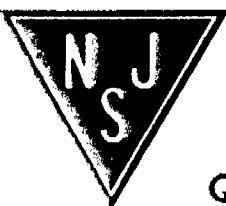
ABSOLUTE MAXIMUM RATINGS:

	2N497	2N498	2N656	2N657	UNITS
Collector to Base Breakdown Voltage V_{CRO}	60	100	60	100	volts
Collector to Emitter Breakdown Voltage V_{CEO}	60	100	60	100	volts
Emitter to Base Breakdown Voltage V_{EBO}	8.0	8.0	8.0	8.0	volts
Collector Dissipation at 25 ° C (Case Temperature)	4.0	4.0	4.0	4.0	watts
Collector Dissipation at 25 ° C (Ambient)	0.8	0.8	0.8	0.8	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	2N497, 2N498			2N656, 2N657			UNITS
		MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
Collector Base Reverse Current I_{CBO}	Maximum rated voltage	0.1	10		0.1	10		μA
Emitter Base Reverse Current I_{EBO}	Maximum rated voltage	.05	250		.05	250		μA
Collector Cutoff Current I_{CRO}	$V_{CB}=30 V$.002	10		.002	10		μA
DC Current Gain h_{FE}	$I_C=200 mA, V_C=10 V \blacktriangle$	12	20	36	30	60	90	
DC Input Resistance h_{iE}	$I_B=8.0 mA, V_C=10 V \blacktriangle$		50	500		50	500	ohms
Saturation Voltage V_{CE}	$I_C=200 mA, I_B=40 mA \blacktriangle$	2.0		5.0	2.0		5.0	volts
Output Capacitance C_{ob}	$V_C=10 V, I_C=0$		14			14		μf
High Frequency Current Gain h_{fe}	$V_C=10 V, I_C=50 mA, f=20 mc$	2.5			3.0			

\blacktriangle Measured with 300 μ Sec, 2% duty cycle pulse



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