

**TO - 92 BIPOLAR TRANSISTORS
TRANSISTOR(NPN)**

FEATURES

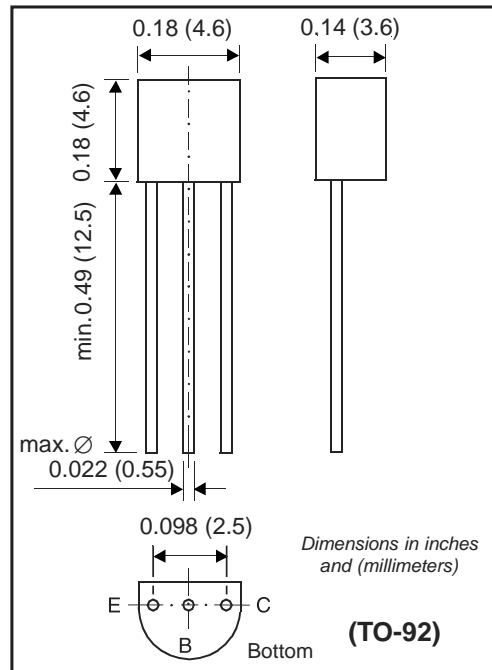
- * Power dissipation
P_{CM}: 0.6 W(T_{amb}=25°C)
- * Collector current
I_{CM}: 0.6 A
- * Collector-base voltage
V_{(BR)CBO}: 60 V
- * Operating and storage junction temperature range
T_J, T_{stg}: -55°C to +150°C

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Marking :2N4401+Date code

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60 Hz, resistive or inductive load.
For capacitive load, derate current by 20%.



MAXIMUM RATINGS (@ T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	VALUE	UNITS
Max. Steady State Power Dissipation ⁽¹⁾ @T _A =25°C Derate above 25°C	P _D	600	mW
Max. Operating Temperature Range	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (@ T_A = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Thermal Resistance Junction to Ambient	R _{θJA}	-	-	417	°C/W

Notes : 1. Alumina=0.4*0.3*0.024in.99.5% alumina
2. "ROHS Compliant"

RATING AND CHARACTERISTICS CURVES (2N4401)

— 25°C - - - 100°C

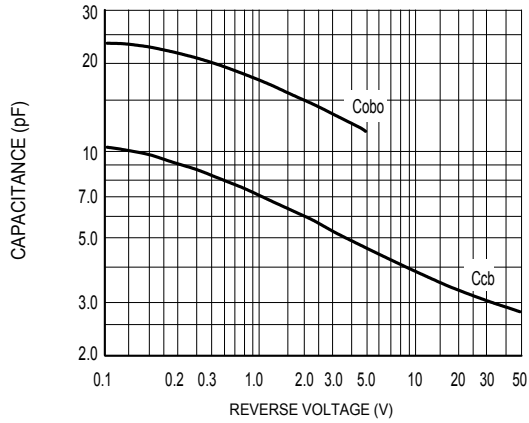


Figure 1. Capacitances

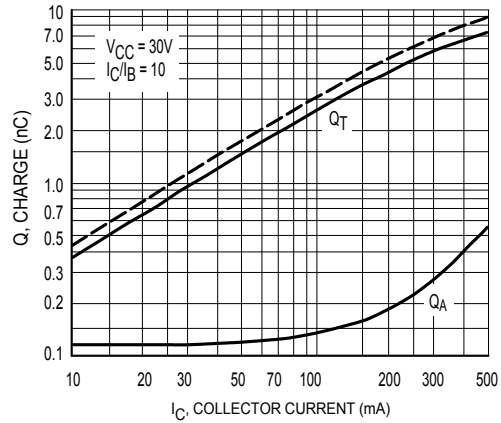


Figure 2. Charge Data

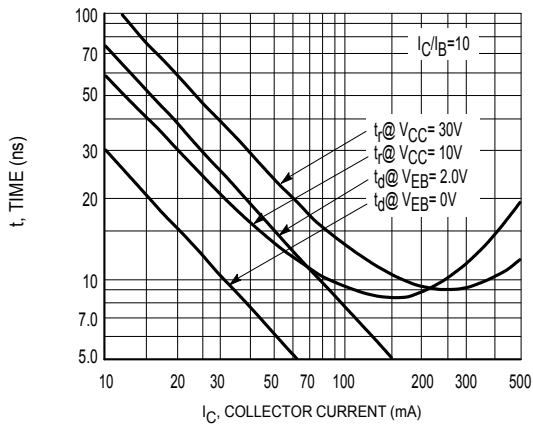


Figure 3. Turn-On Time

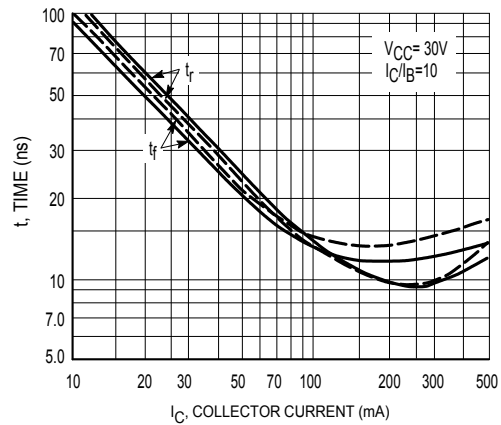


Figure 4. Rise and Fall Times

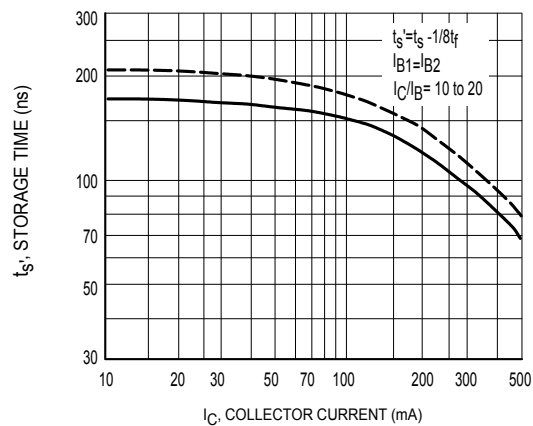


Figure 5. Storage Time

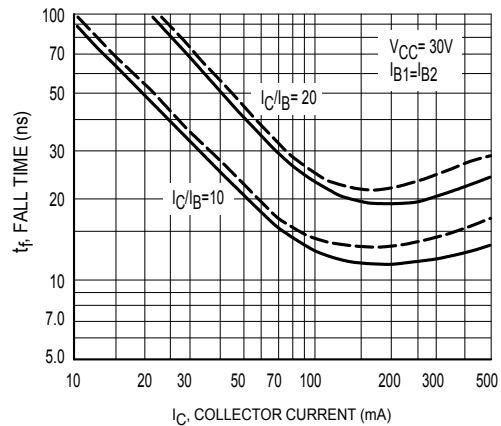


Figure 6. Fall Time

RATING AND CHARACTERISTICS CURVES (2N4401)

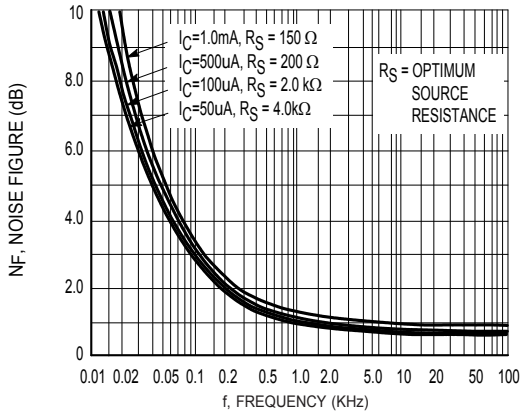


Figure 7. Frequency Effects

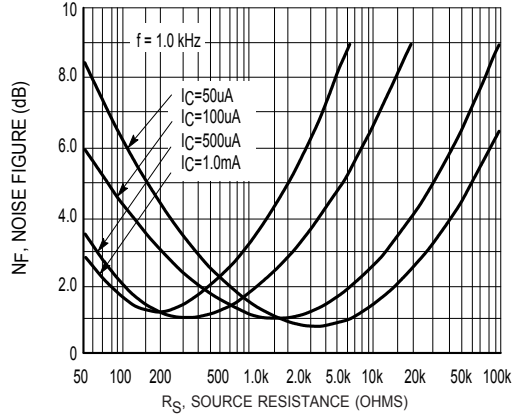


Figure 8. Source Resistance Effects

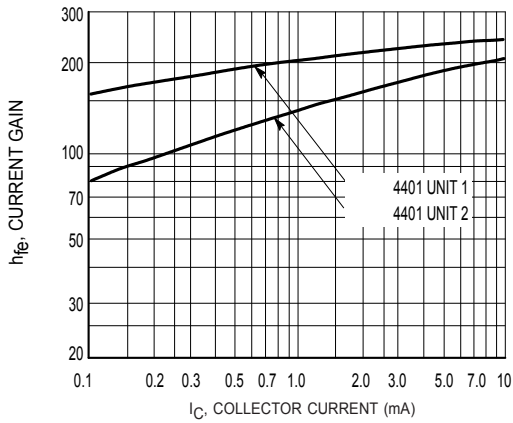


Figure 9. Current Gain

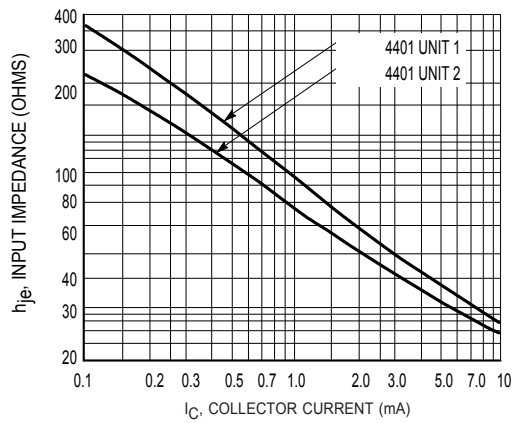


Figure 10. Input Impedance

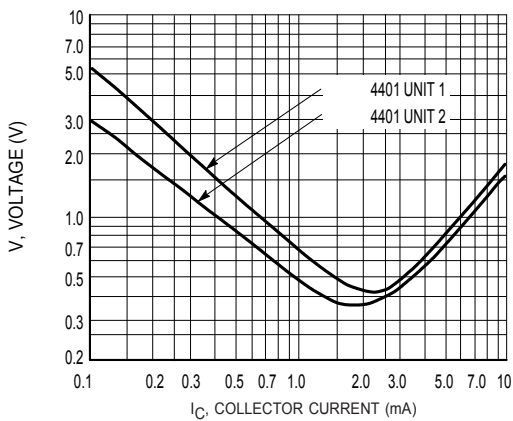


Figure 11. Voltage Feedback Ratio

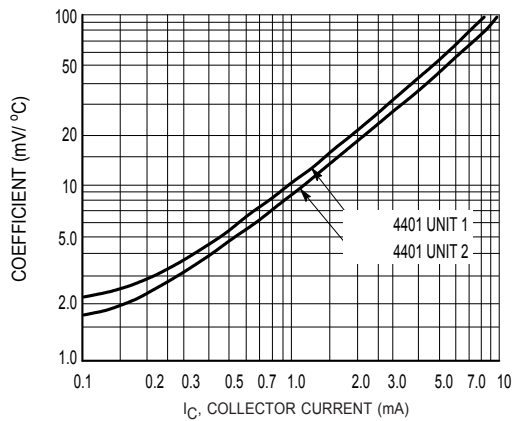


Figure 12. Temperature Coefficients

RATING AND CHARACTERISTICS CURVES (2N4401)

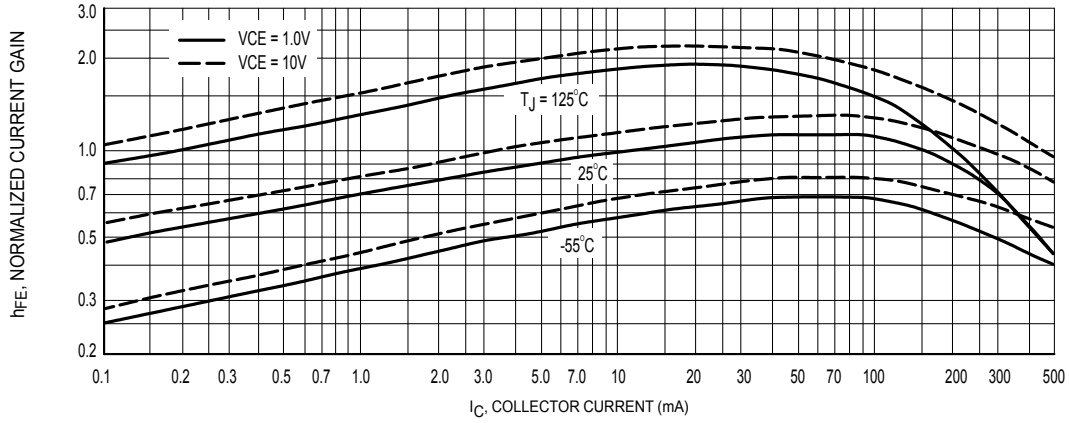


Figure 13. DC Current Gain

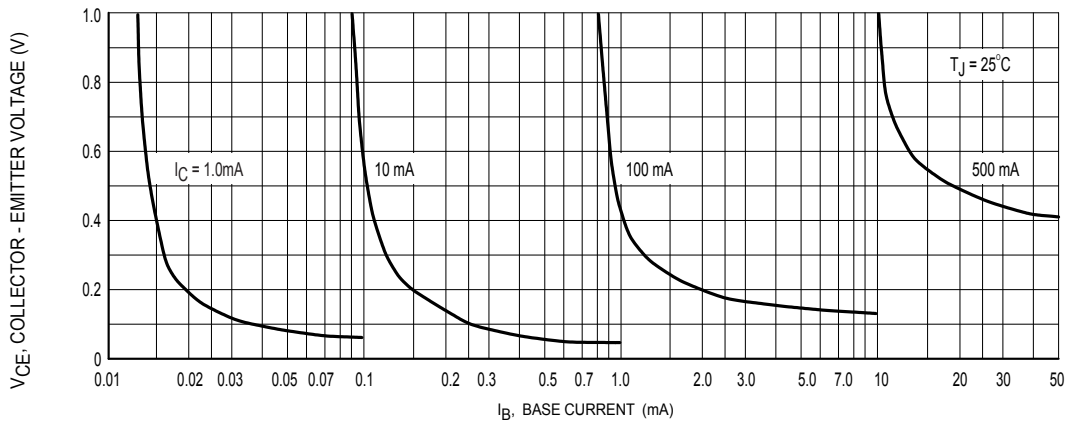


Figure 14. Collector Saturation Region

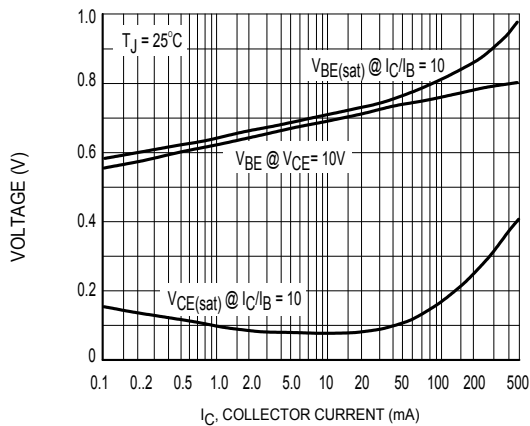


Figure 15. "ON" Voltages

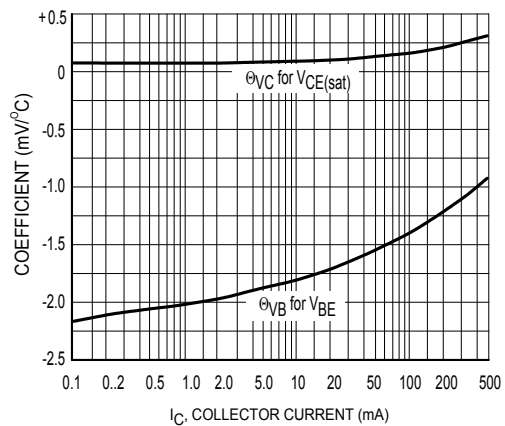


Figure 16. Temperature Coefficients

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