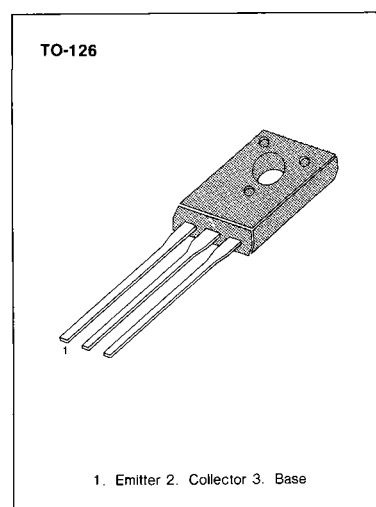


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COLOR TV CHROMA OUTPUT VIDEO OUTPUT

ABSOLUTE MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CB0}	300	V
Collector-Emitter Voltage	V_{CE0}	300	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	200	mA
Collector Dissipation ($T_a = 25^\circ\text{C}$)	P_C	1.25	W
Collector Dissipation ($T_c = 25^\circ\text{C}$)	P_C	10	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55~150	$^\circ\text{C}$



ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

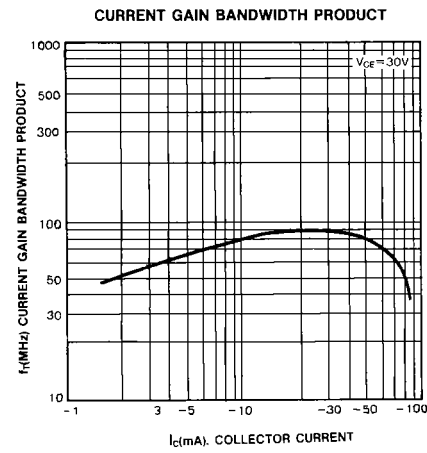
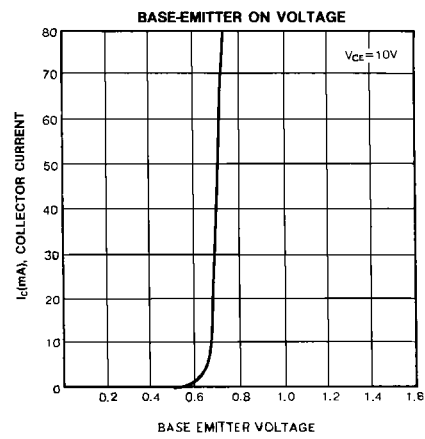
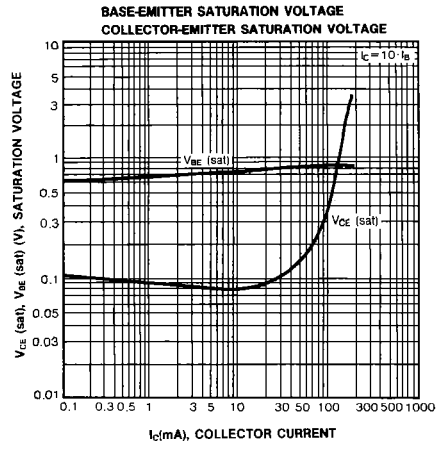
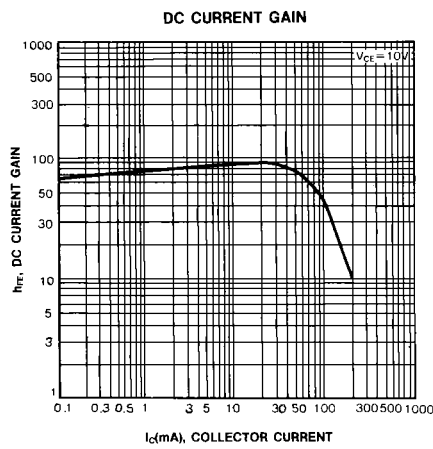
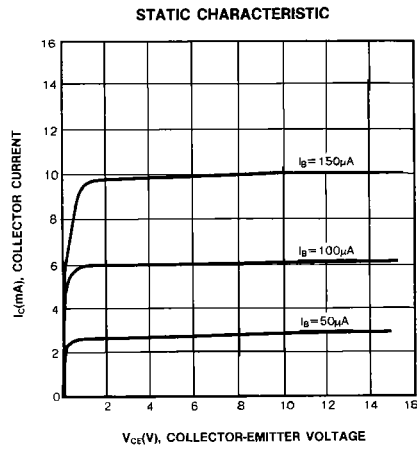
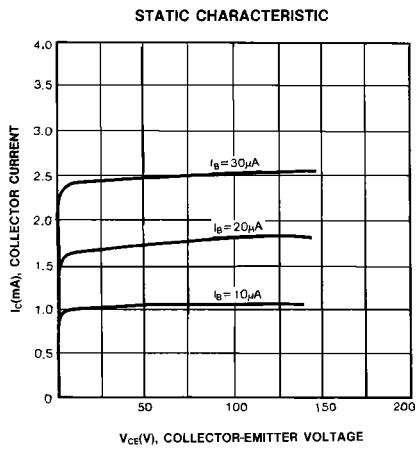
Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	V_{CB0}	$I_C = 0.1\text{mA}, I_E = 0$	300			V
Collector-Emitter Breakdown Voltage	V_{CE0}	$I_C = 5\text{mA}, I_B = 0, R_{BE} = \infty$	300			V
Emitter-Base Breakdown Voltage	V_{EB0}	$I_E = 0.1\text{mA}, I_C = 0$	5			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 200\text{V}, I_E = 0$			100	nA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = 4\text{V}, I_C = 0$			100	nA
• DC Current Gain	h_{FE}	$V_{CE} = 10\text{V}, I_C = 10\text{mA}$	40		250	
• Collector Emitter Saturation Voltage	$V_{CE}(\text{sat})$	$I_C = 50\text{mA}, I_B = 5\text{mA}$			1.5	V
Current Gain Bandwidth Product	f_T	$V_{CE} = 30\text{V}, I_E = -10\text{mA}$	50	80		MHz
Feed Back Capacitance	C_{re}	$V_{CB} = 30\text{V}, I_E = 0$ $f = 1\text{MHz}$			3	pF

* Pulse Test: $PW \leq 350\mu\text{s}$, Duty Cycle $\leq 2\%$

h_{FE} CLASSIFICATION

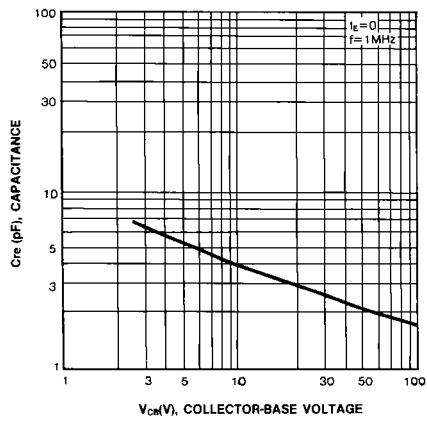
Classification	R	O	Y	G
h_{FE}	40-80	60-120	100-200	160-250

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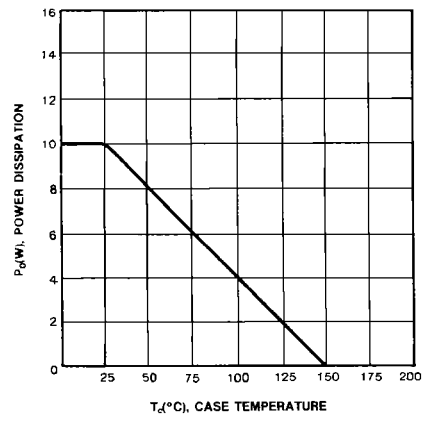


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FEEDBACK CAPACITANCE



POWER DERATING



POWER DERATING

