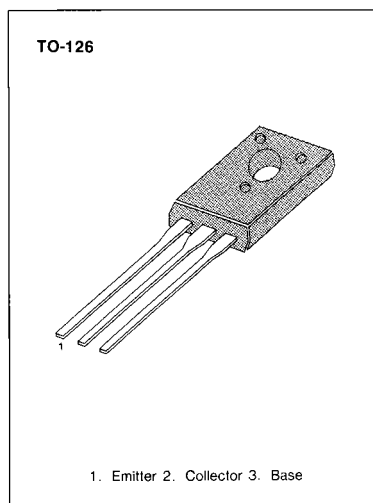


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### CRT DISPLAY VIDEO OUTPUT

- High Current Gain Bandwidth Product :  $f_T=400\text{MHz(TYP)}$
- High Voltage:  $V_{CB0}=-200\text{V}$
- Low Reverse Transfer Capacitance:  $C_{re}=1.7\text{pF(TYP)}$



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

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	$V_{CB0}$	- 200	V
Collector Emitter Voltage	$V_{CEO}$	- 200	V
Emitter Base Voltage	$V_{EBO}$	- 4	V
Collector Current (DC)	$I_C$	- 100	mA
Collector Current (Pulse)	$I_C$	200	mA
Collector Dissipation ( $T_A = 25^\circ\text{C}$ )	$P_C$	1.2	W
Collector Dissipation ( $T_C = 25^\circ\text{C}$ )	$P_C$	7	W
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	- 55 ~ 150	$^\circ\text{C}$

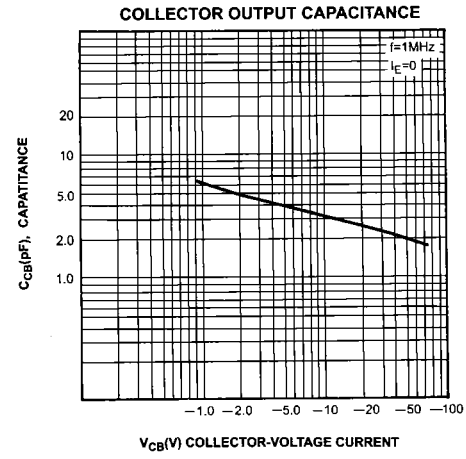
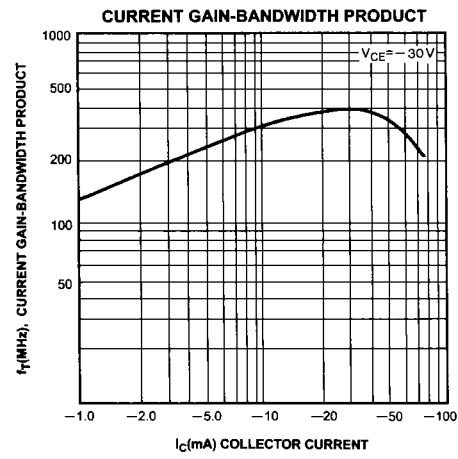
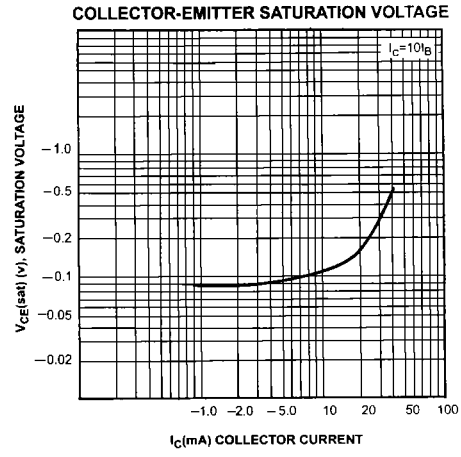
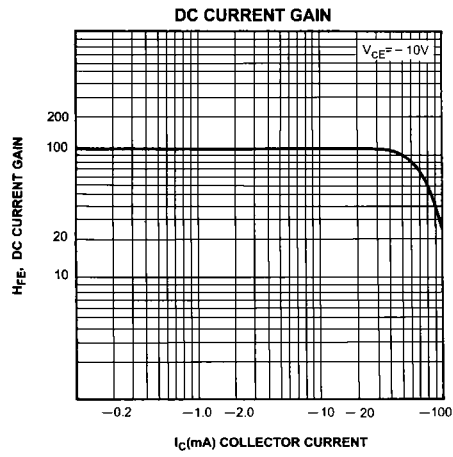
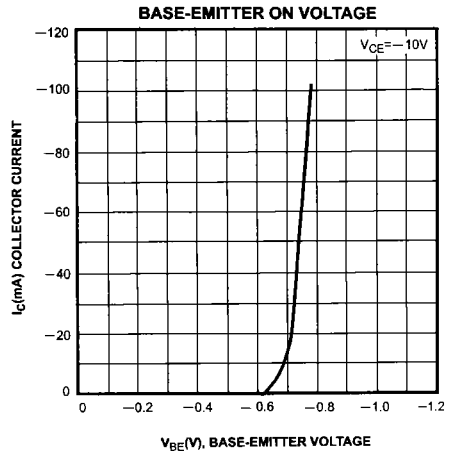
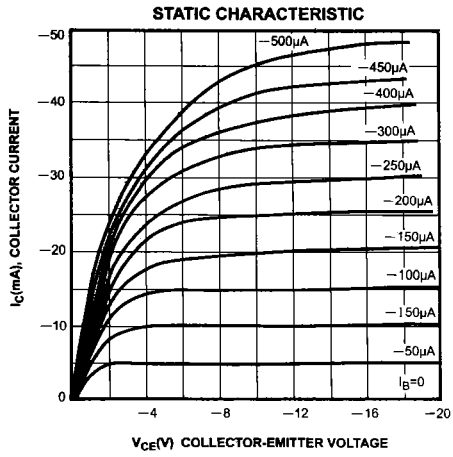
### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ )

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Base Breakdown Voltage	$BV_{CB0}$	$I_C = -10\mu\text{A}, I_B = 0$	- 200			V
Collector Emitter Breakdown Voltage	$BV_{CEO}$	$I_C = -1\text{mA}, R_{BE} = \infty$	- 200			V
Emitter Base Breakdown Voltage	$BV_{EBO}$	$I_E = -100\mu\text{A}, I_C = 0$	- 4			V
Collector Cutoff Current	$I_{CB0}$	$V_{CB} = -150\text{V}, I_C = 0$			- 0.1	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{BE} = -2\text{V}, I_E = 0$			- 0.1	$\mu\text{A}$
DC Current Gain	$h_{FE1}$	$V_{CE} = -10\text{V}, I_C = -10\text{mA}$	40		120	
	$h_{FE2}$	$V_{CE} = -10\text{V}, I_C = -60\text{mA}$	20			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -30\text{mA}, I_C = -3\text{mA}$			- 0.8	V
Base Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = -30\text{mA}, I_C = -3\text{mA}$			- 1.8	V
Current Gain Bandwidth Product	$f_T$	$V_{CE} = -30\text{V}, I_C = -30\text{mA}$		400		MHz
Output Capacitance	$C_{ob}$	$V_{CB} = -30\text{V}, f = 1\text{MHz}$		2.3		pF
Reverse Transfer Capacitance	$C_{re}$	$V_{CB} = -30\text{V}, f = 1\text{MHz}$		1.7		pF

### \* $h_{FE}(1)$ CLASSIFICATION

Classification	C	D
$h_{FE}(1)$	40 ~ 80	60 ~ 120

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