

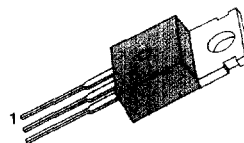
B/W TV HORIZONTAL DEFLECTION OUTPUT

- Collector-Base Voltage $V_{CBO}=150V$
- Collector Current $I_C=5A$
- Collector Dissipation $P_C=40W(T_C=25^\circ C)$

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	150	V
Collector-Emitter Voltage	V_{CEO}	70	V
Emitter-Base Voltage	V_{EBO}	8	V
Collector Current	I_C	5	A
Collector Dissipation ($T_C=25^\circ C$)	P_C	40	W
Junction Temperature	T_J	150	$^\circ C$
Storage Temperature	T_{STG}	-55 ~ 150	$^\circ C$

TO-220



1. Gate 2. Drain 3. Source

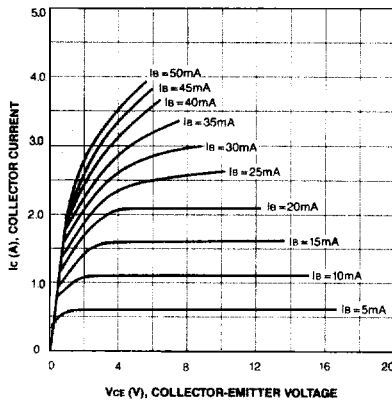
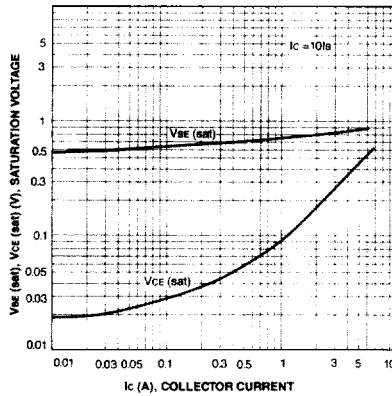
ELECTRICAL CHARACTERISTICS ($T_C=25^\circ C$)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = 1mA, I_E = 0$	150			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 2mA, R_{BE} = \infty$	70			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = 1mA, I_C = 0$	8			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = 100V, I_E = 0$			20	μA
DC Current Gain	h_{FE}	$V_{CE} = 5V, I_C = 5A$	20		140	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 5A, I_B = 0.5A$			1	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C = 5A, I_B = 0.5A$			1.5	V
Current Gain Bandwidth Product	f_T	$V_{CE} = 5V, I_C = 0.5A$		10		MHz

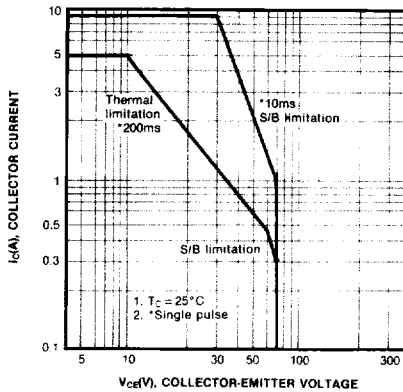
 h_{FE} CLASSIFICATION

Classification	N	R	O
h_{FE}	20 - 50	40 - 80	70 - 140

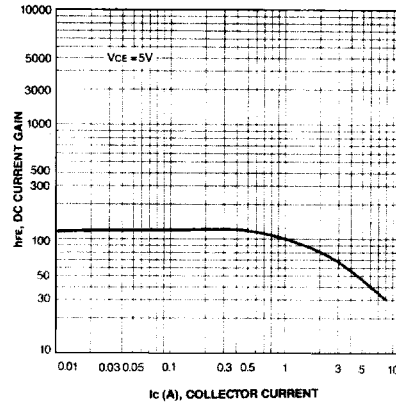
STATIC CHARACTERISTIC

BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE

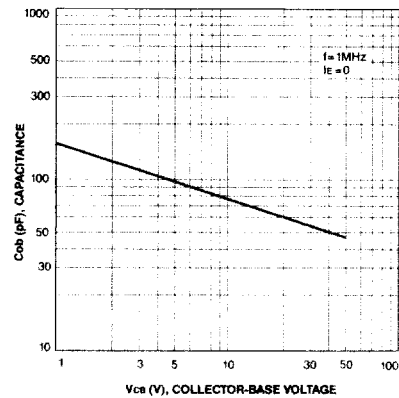
SAFE OPERATING AREA



DC CURRENT GAIN



COLLECTOR OUTPUT CAPACITANCE



POWER DERATING

