

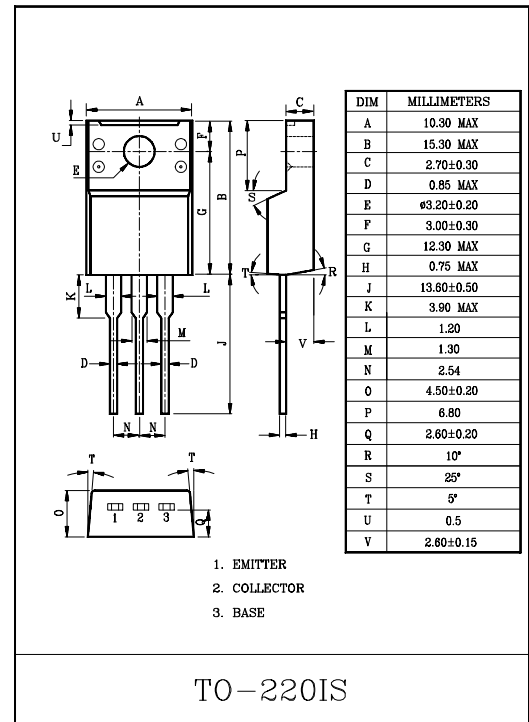
HIGH-DEFINITION CRT DISPLAY
VIDEO OUTPUT APPLICATION.

FEATURES

- High Voltage : $V_{CEO}=200V$.
- High Transition Frequency : $f_T=150MHz(Typ.)$.
- Low Collector Output Capacitance : $C_{ob}=1.7pF(Typ.)$.

MAXIMUM RATINGS ($T_a=25^\circ C$)

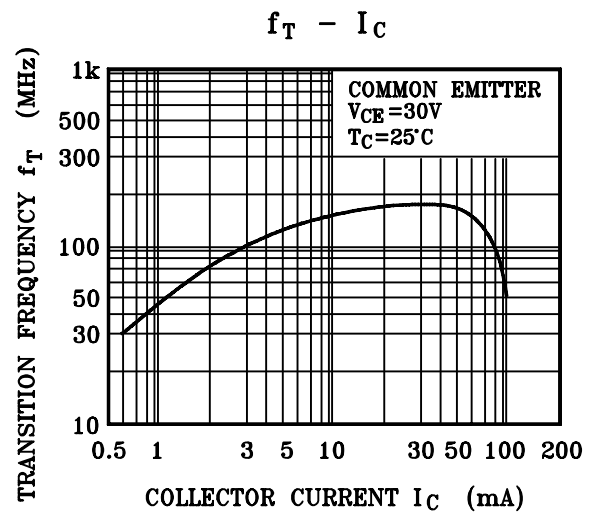
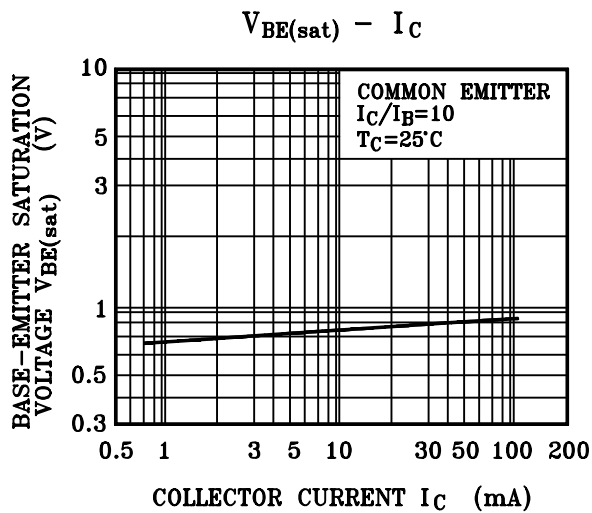
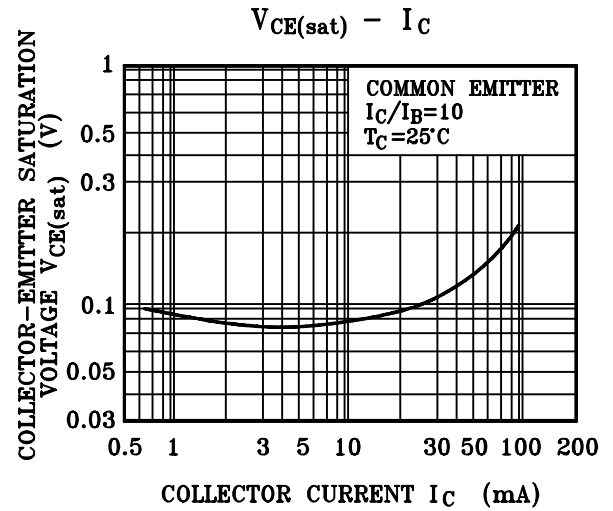
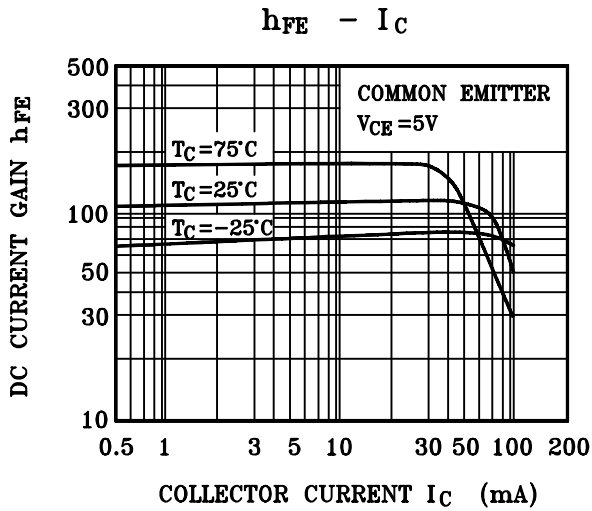
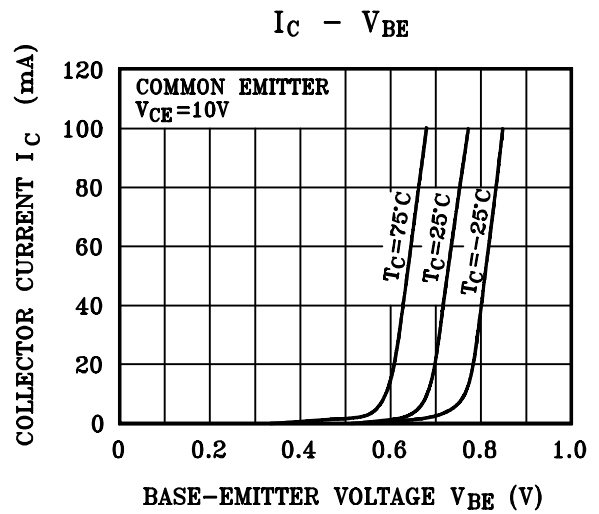
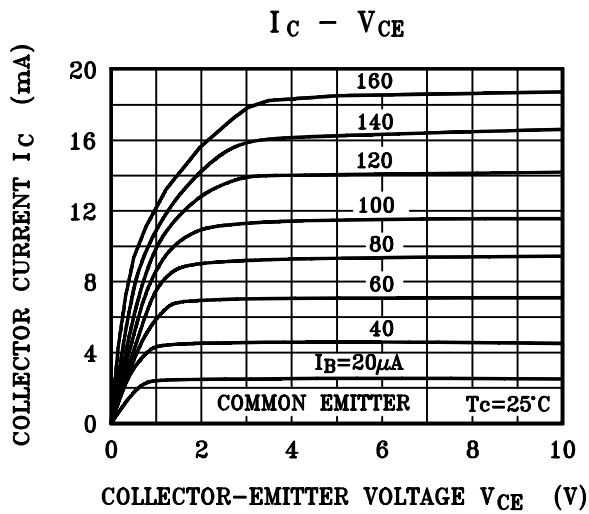
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	200	V
Collector-Emitter Voltage		V_{CEO}	200	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current	DC	I_C	100	mA
	Pulse	I_{cp}	200	
Collector Power Dissipation	$T_a=25^\circ C$	P_C	2	W
	$T_c=25^\circ C$		5	
Junction Temperature		T_j	150	$^\circ C$
Storage Temperature Range		T_{stg}	$-55 \sim 150$	$^\circ C$



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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=150V, I_E=0$	—	—	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=4V, I_C=0$	—	—	0.1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	200	—	—	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=10mA$	70	—	240	—
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20mA, I_B=2mA$	—	—	0.6	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20mA, I_B=2mA$	—	—	1.0	V
Transition Frequency	f_T	$V_{CE}=30V, I_C=10mA$	—	150	—	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=30V, I_E=0, f=1MHz$	—	1.7	—	pF
Reverse Transfer Capacitance	C_{re}	$V_{CB}=30V, f=1MHz$	—	1.2	—	pF

Note : h_{FE} Classification O:70~140 , Y:120~240



KTC1170

