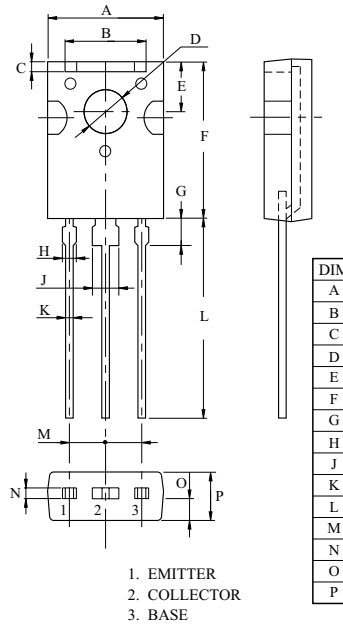
HIGH-DEFINITION CRT DISPLAY,
VIDEO OUTPUT APPLICATIONS.

FEATURES

· High breakdown voltage : $V_{CEO} \geq 300V$.
· Small reverse transfer capacitance and excellent high frequency characteristic.
: C_{re}=2.3pF (V_{CB}=30V, f=1MHz)
· Complementary KTC3503.



DIM	MILLIMETERS
A	8.3 MAX
B	5.8
C	0.7
D	Φ3.2±0.1
E	3.5
F	11.0±0.3
G	2.9 MAX
H	1.0 MAX
J	1.9 MAX
K	0.75±0.15
L	15.50±0.5
M	2.3±0.1
N	0.65±0.15
O	1.6
P	3.4 MAX

TO-126

MAXIMUM RATING (Ta=25℃)

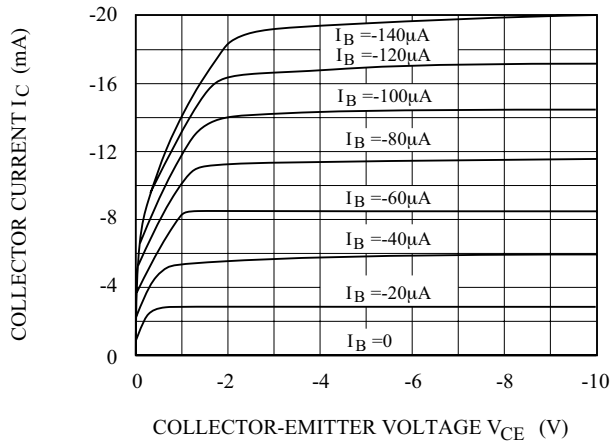
CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-300	V
Collector-Emitter Voltage		V_{CEO}	-300	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-100	mA
	Pulse	I_{CP}	-200	
Collector Power Dissipation	Ta=25℃	P_C	1.5	W
	Tc=25℃		7	
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 ~ 150	℃

ELECTRICAL CHARACTERISTICS (Ta=25℃)

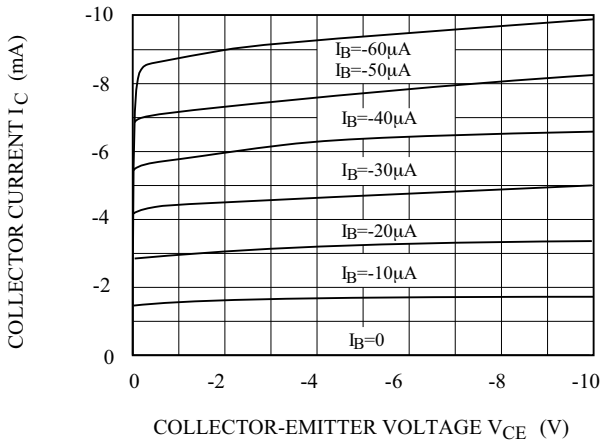
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=-200V, I_E=0	-	-	-0.1	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=-4V, I_C=0	-	-	-0.1	μA
DC Current Gain	h_{FE} (Note)	V_{CE}=-10V, I_C=-10mA	60	-	200	
Transition Frequency	f_T	V_{CE}=-30V, I_C=-10mA	-	150	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-30V, I_E=0, f=1MHz	-	3.1	-	pF
Reverse Transfer Capacitance	C_{re}	V_{CB}=-30V, I_E=0, f=1MHz	-	2.3	-	pF
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
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=-10μA, I_E=0	-300	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=-1mA, I_B=0	-300	-	-	V
Base-Emitter Breakdown Voltage	$V_{(BR)EBO}$	I_E=-10μA, I_C=0	-5	-	-	V

Note : h_{FE} Classification O:60 ~ 120, Y:100 ~ 200

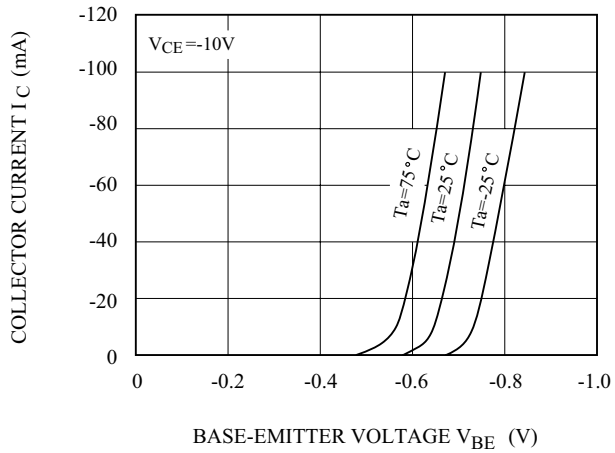
I_C - V_{CE}



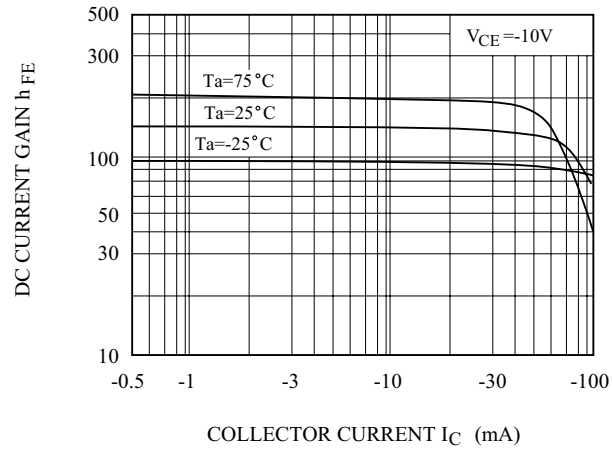
I_C - V_{CE}



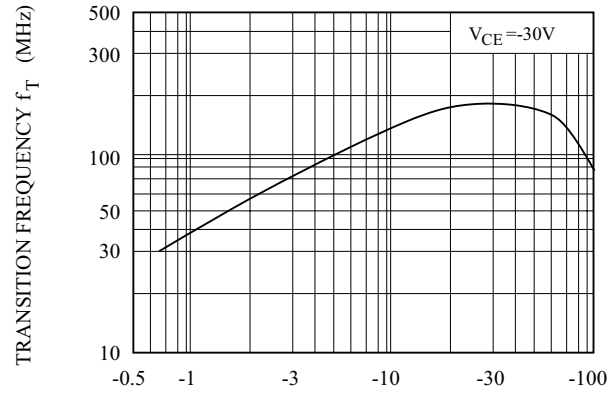
I_C - V_{BE}



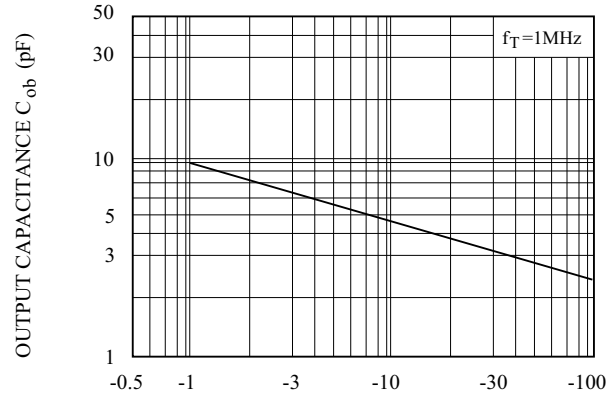
h_{FE} - I_C



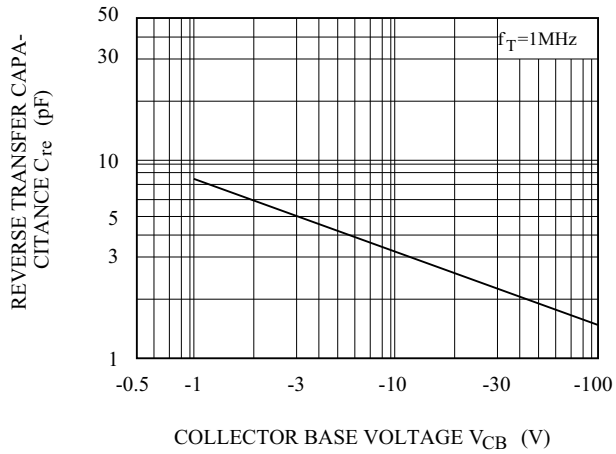
f_T - I_C



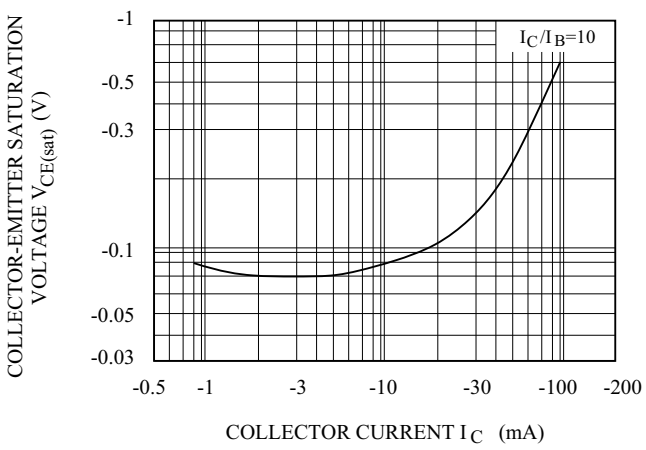
C_{Ob} - V_{CB}



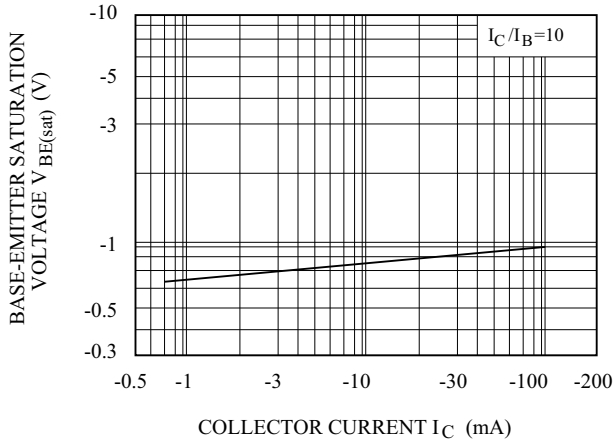
C_{re} - V_{CB}



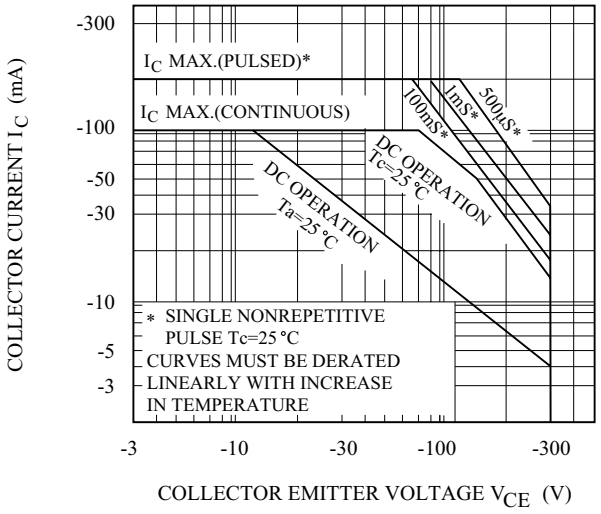
$V_{CE(sat)}$ - I_C



$V_{BE(sat)}$ - I_C



SAFE OPERATING AREA



Pc - Ta