

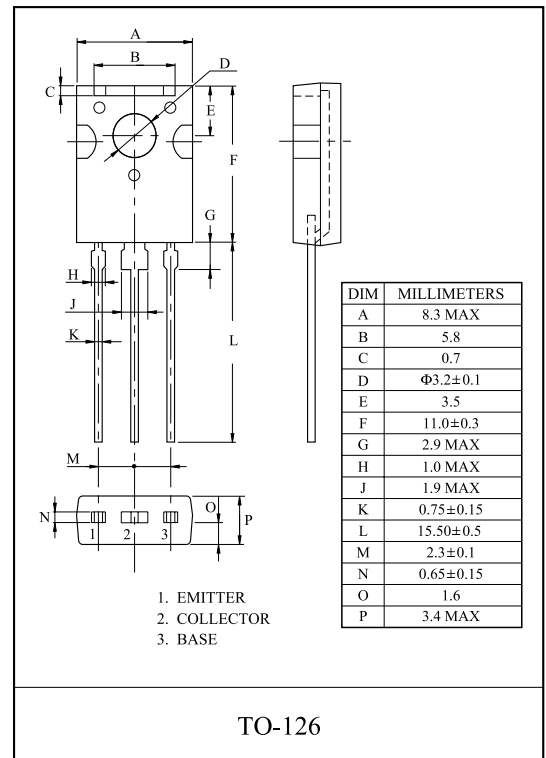
HIGH-DEFINITION CRT DISPLAY,
VIDEO OUTPUT APPLICATIONS.

FEATURES

- High breakdown voltage : $V_{CEO} = 300V$.
- Small reverse transfer capacitance and excellent high frequency characteristic.
: $C_{re}=1.8pF$ ($V_{CB}=30V, f=1MHz$)
- Complementary KTA1381.

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

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	$T_a=25$	P_C	1.5	W
	$T_c=25$		7	
Junction Temperature		T_j	150	
Storage Temperature Range		T_{stg}	-55 150	

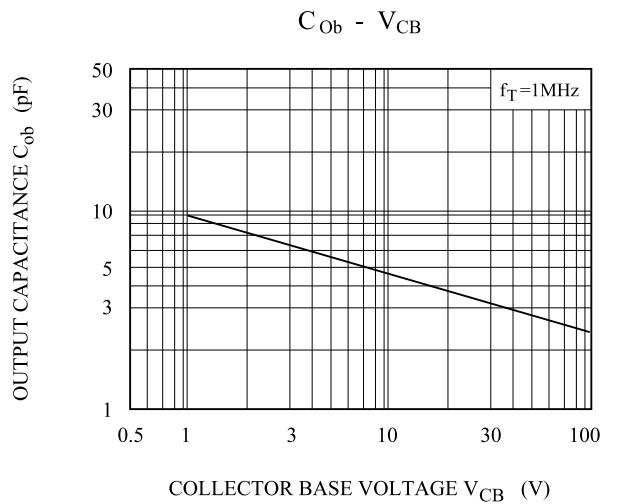
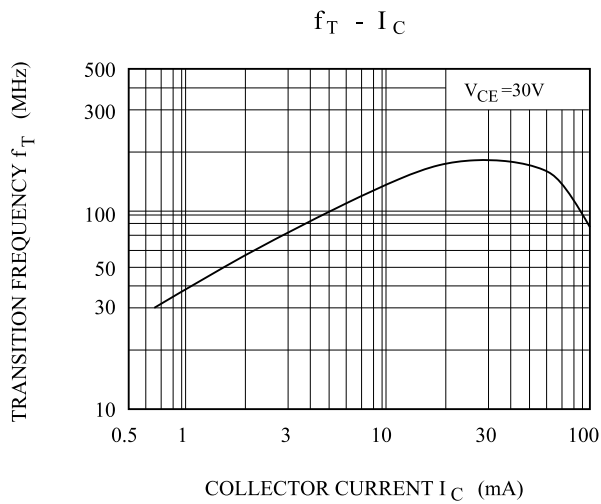
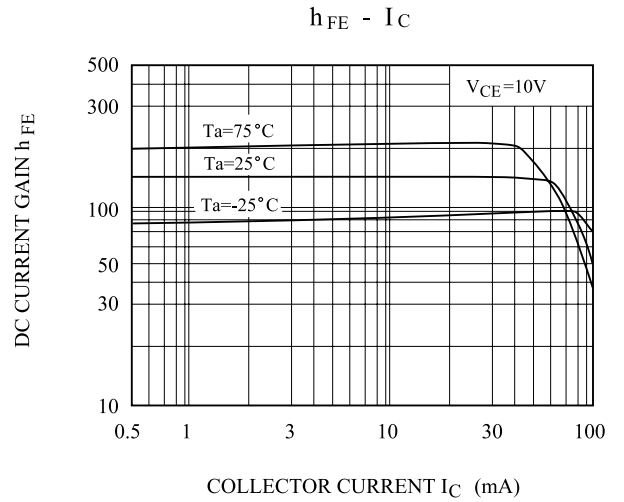
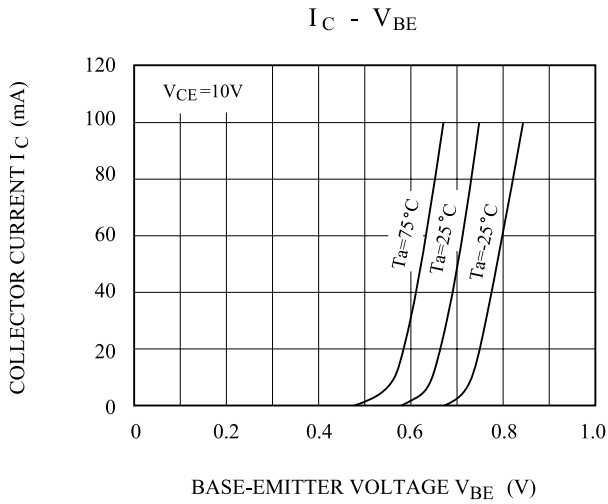
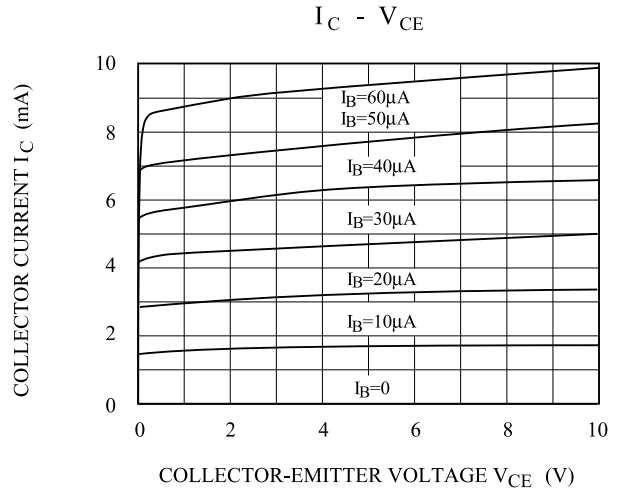
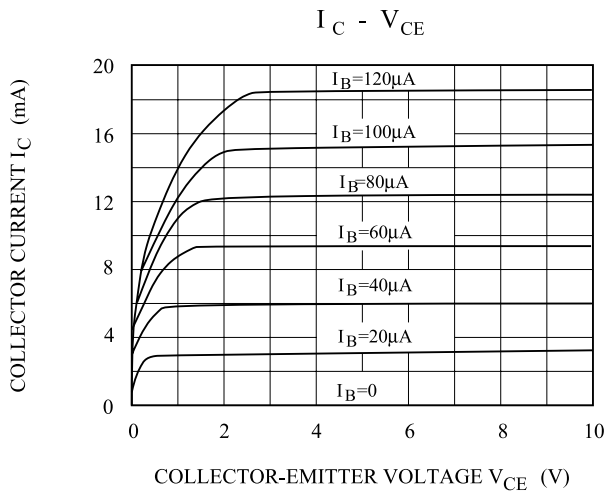


ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$)

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}	$V_{CB}=30V, I_E=0, f=1MHz$	-	2.6	-	pF
Reverse Transfer Capacitance	C_{re}	$V_{CB}=30V, I_E=0, f=1MHz$	-	1.8	-	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	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	300	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	300	-	-	V
Base-Emitter Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5	-	-	V

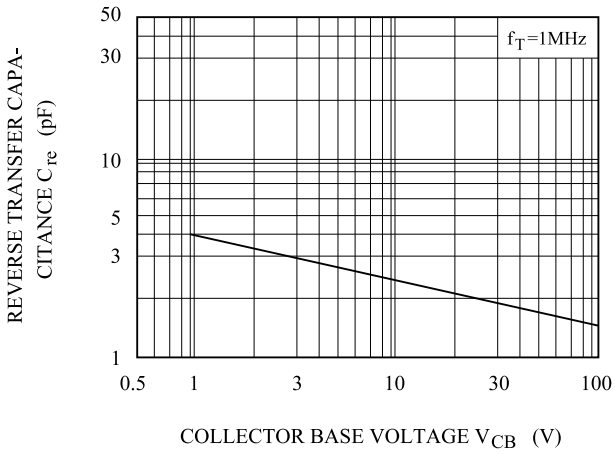
Note : h_{FE} Classification O:60 120, Y:100 200

KTC3503

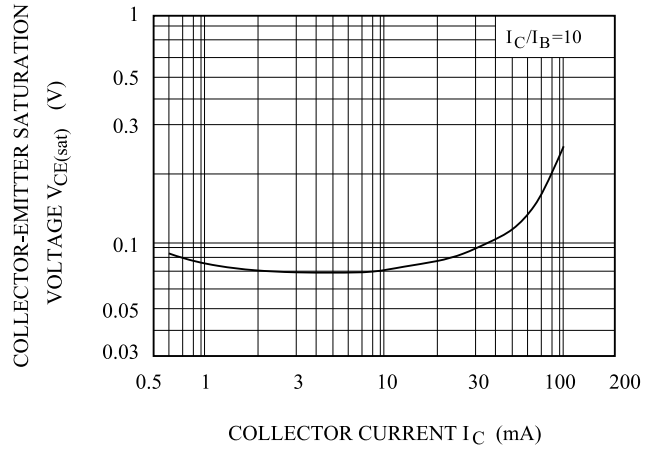


KTC3503

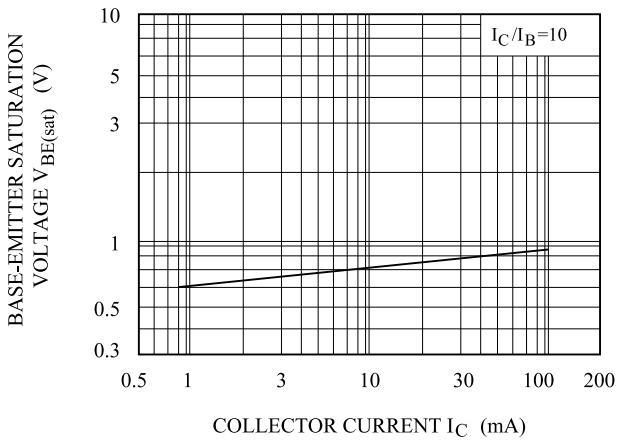
$C_{re} - V_{CB}$



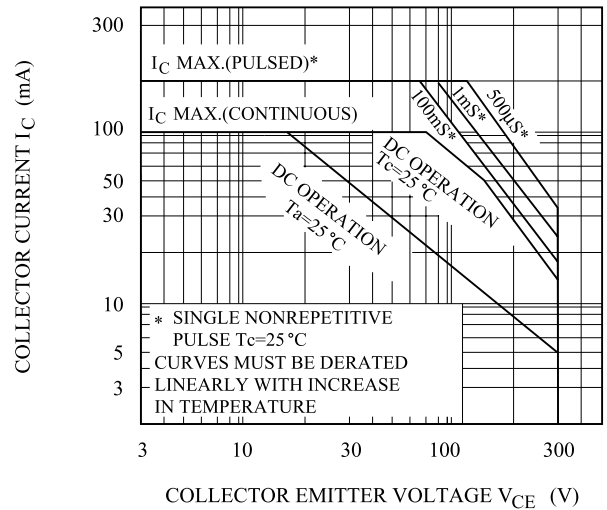
$V_{CE(sat)} - I_C$



$V_{BE(sat)} - I_C$



SAFE OPERATING AREA



$P_c - T_a$

