

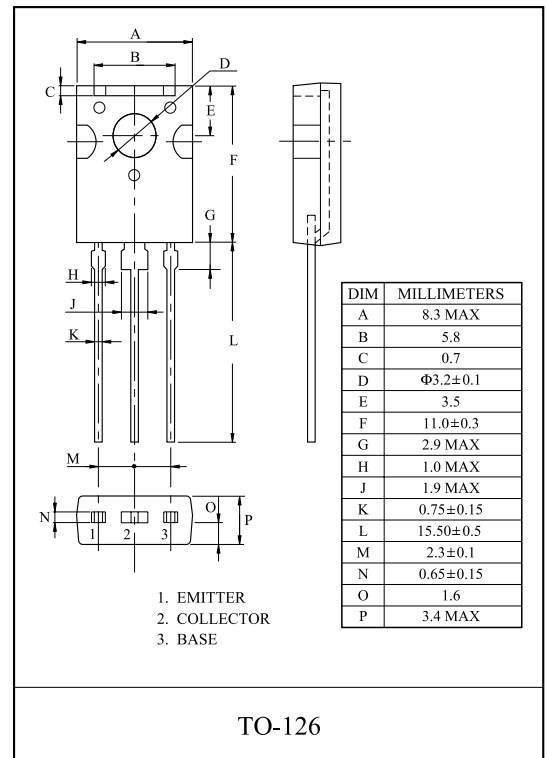
HIGH-DEFINITION CRT DISPLAY,
VIDEO OUTPUT APPLICATIONS.

FEATURES

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

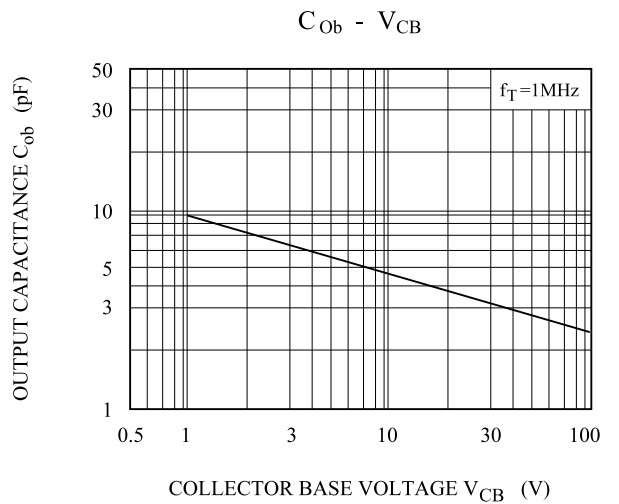
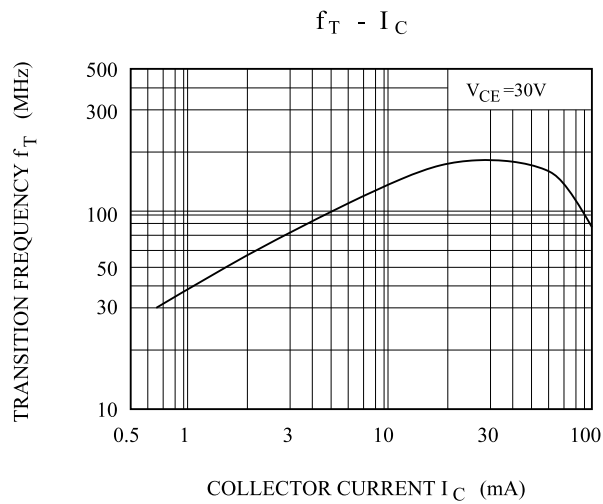
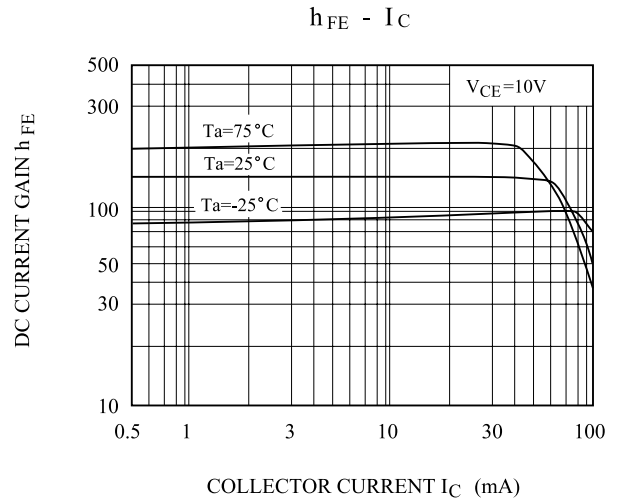
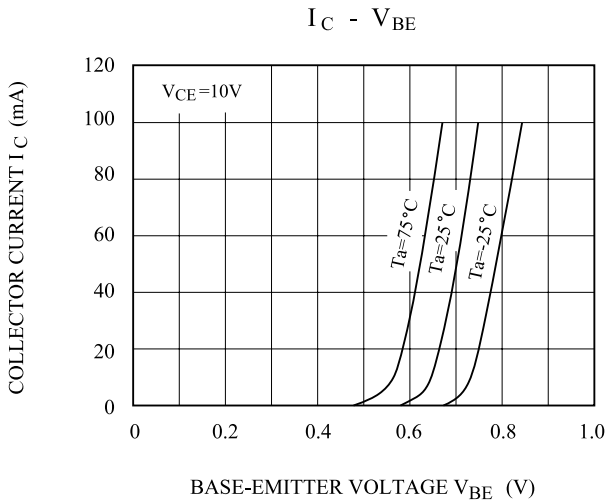
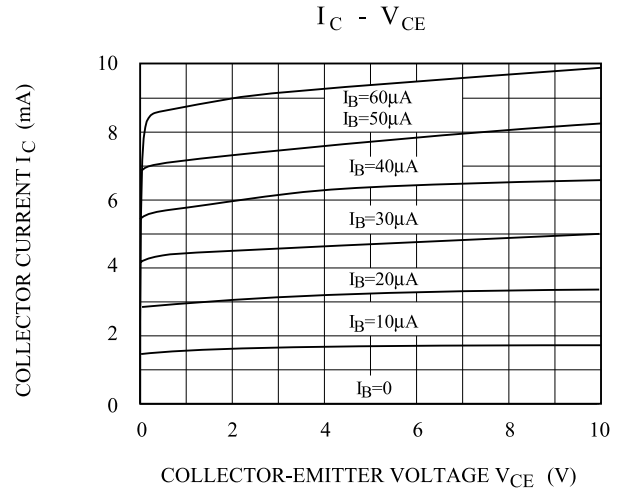
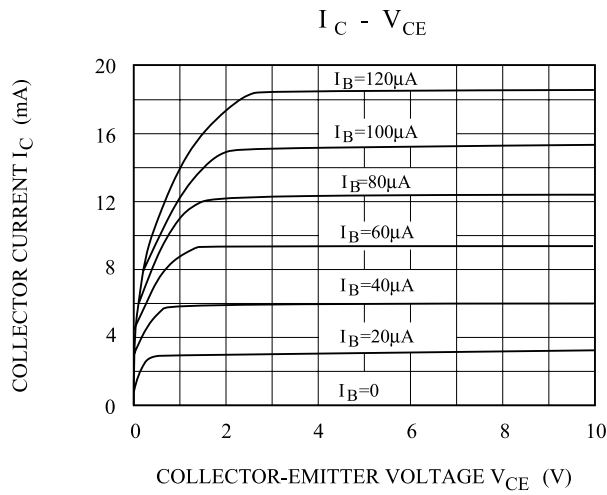
MAXIMUM RATING ($T_a=25^\circ\text{C}$)

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 ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB}=200\text{V}$, $I_E=0$	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=4\text{V}$, $I_C=0$	-	-	0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE}=10\text{V}$, $I_C=10\text{mA}$	60	-	200	
Transition Frequency	f_T	$V_{CE}=30\text{V}$, $I_C=10\text{mA}$	-	150	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=30\text{V}$, $I_E=0$, $f=1\text{MHz}$	-	2.6	-	pF
Reverse Transfer Capacitance	C_{re}	$V_{CB}=30\text{V}$, $I_E=0$, $f=1\text{MHz}$	-	1.8	-	pF
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=20\text{mA}$, $I_B=2\text{mA}$	-	-	0.6	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=20\text{mA}$, $I_B=2\text{mA}$	-	-	1.0	V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu\text{A}$, $I_E=0$	300	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1\text{mA}$, $I_B=0$	300	-	-	V
Base-Emitter Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu\text{A}$, $I_C=0$	5	-	-	V

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



KTC3503

