

HIGH VOLTAGE SWITCHING APPLICATION.

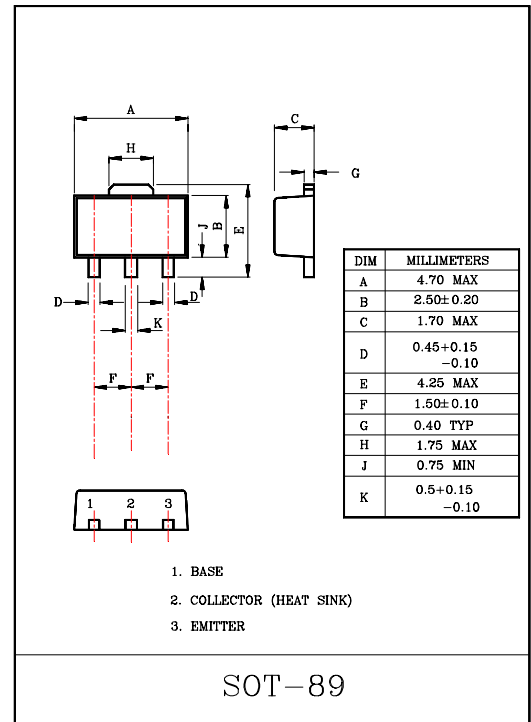
FEATURES

- High Voltage : $V_{CEO} = -150V$.
- High Transition Frequency : $f_T = 120MHz$ (Typ.).
- 1W (Mounted on Ceramic Substrate).
- Small Flat Package.
- Complementary to KTC4372.

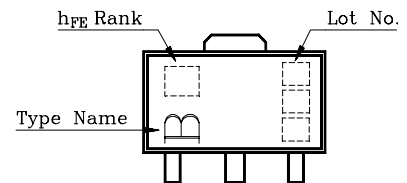
MAXIMUM RATINGS ($T_a = 25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-150	V
Collector-Emitter Voltage	V_{CEO}	-150	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-50	mA
Base Current	I_B	-10	mA
Collector Power Dissipation	P_C	500	mW
	P_{C^*}	1	W
Junction Temperature	T_j	150	$^\circ C$
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ C$

P_{C^*} : KTA1660 mounted on ceramic substrate (250mm²x0.8t)



Marking

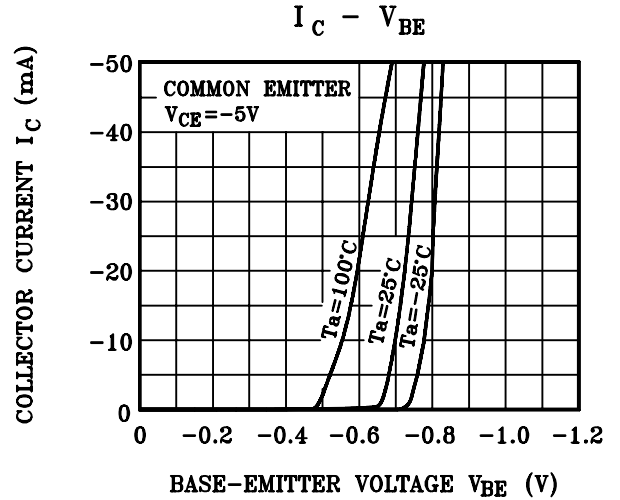
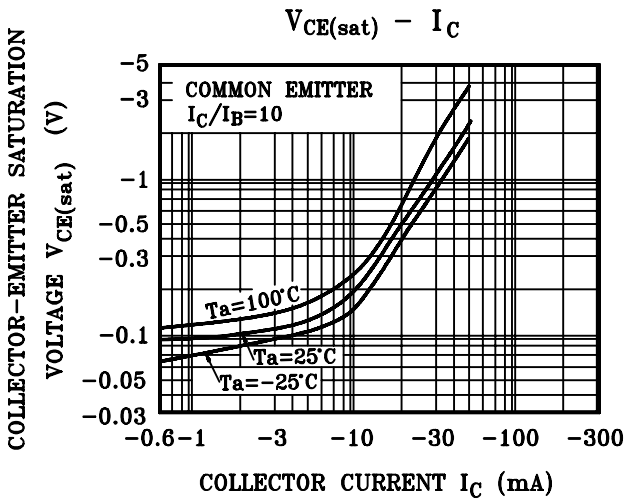
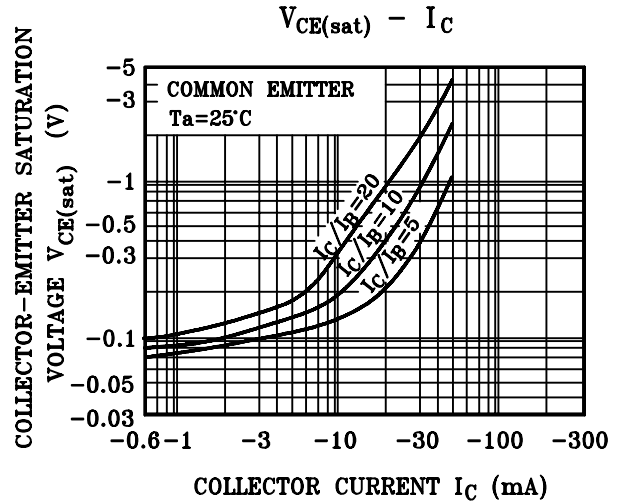
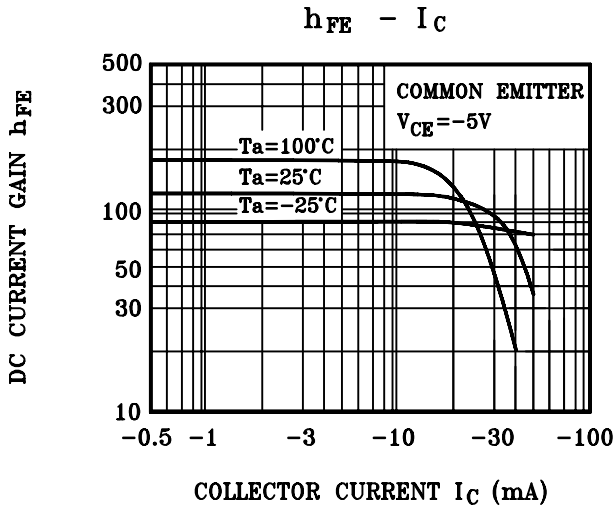
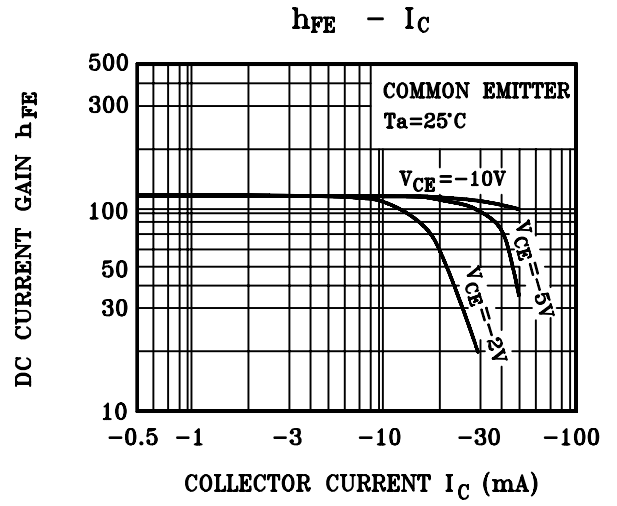
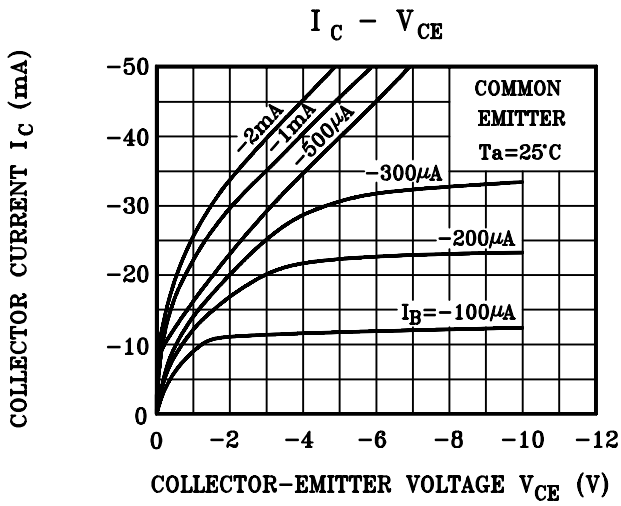


ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

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}	$V_{EB} = -5V, I_C = 0$	-	-	-0.1	μA
DC Current Gain	h_{FE} (Note)	$V_{CE} = -5V, I_C = -10mA$	70	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -1mA$	-	-	-0.8	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V, I_C = -30mA$	-	-	-0.9	V
Transition Frequency	f_T	$V_{CE} = -30V, I_C = -10mA$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	4.0	5.0	pF

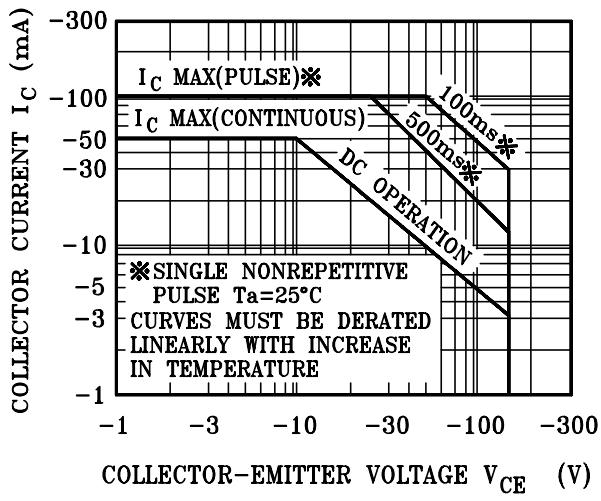
Note : h_{FE} Classification O:70~140 , Y:120~240

KTA1660



KTA1660

SAFE OPERATING AREA



$P_C - T_a$

