

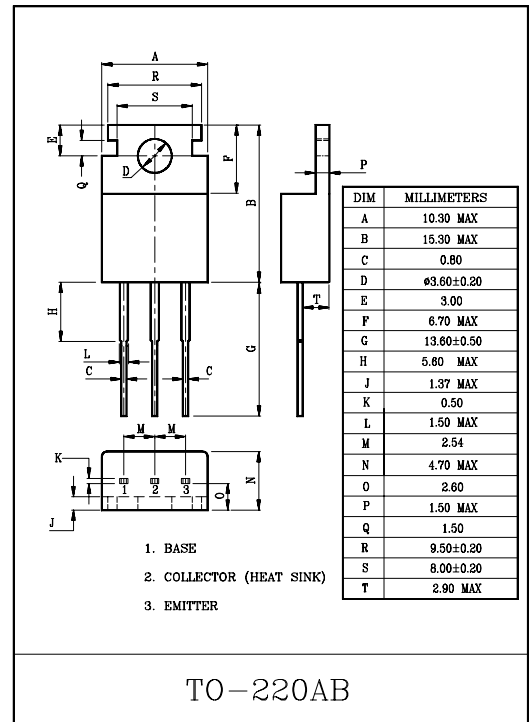
GENERAL PURPOSE APPLICATION.

FEATURES

- Low Collector Saturation Voltage
: $V_{CE(sat)} = -1.0V(\text{Max.})$ at $I_C = -2A, I_B = -0.2A$.
- Complementary to KTC2016.

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

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	V_{CBO}	-60	V	
Collector-Emitter Voltage	V_{CEO}	-60	V	
Emitter-Base Voltage	V_{EBO}	-7	V	
Collector Current	I_C	-3	A	
Base Current	I_B	-0.5	A	
Collector Power Dissipation	P_C	$T_a = 25^\circ\text{C}$	2.0	W
		$T_c = 25^\circ\text{C}$	30	
Junction Temperature	T_j	150	$^\circ\text{C}$	
Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$	



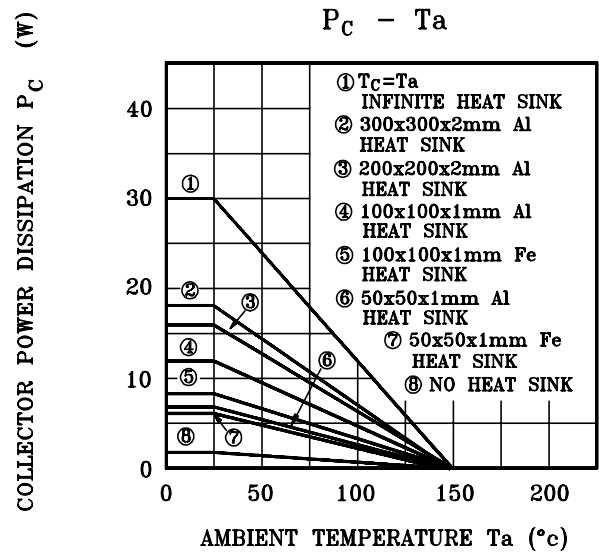
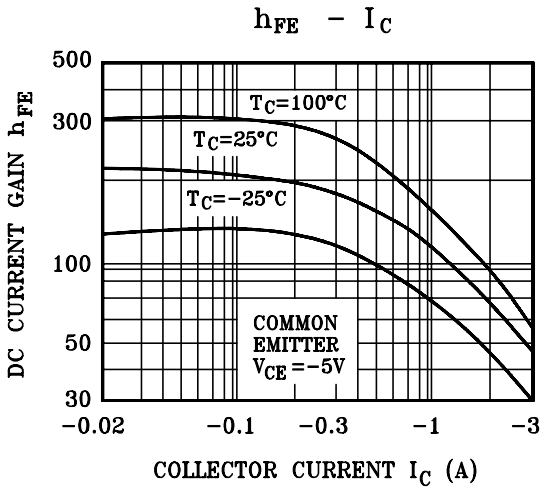
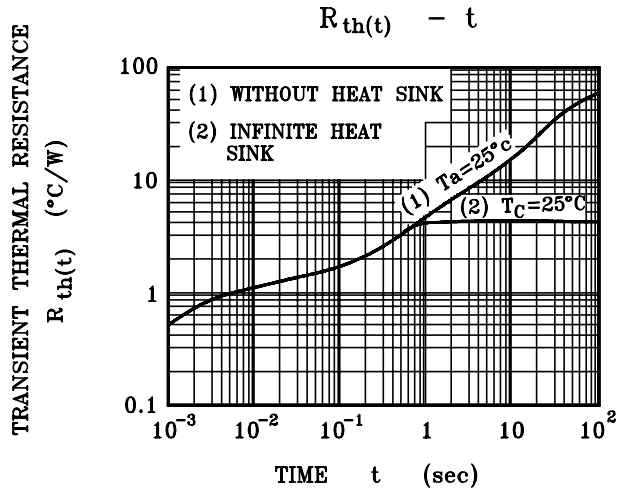
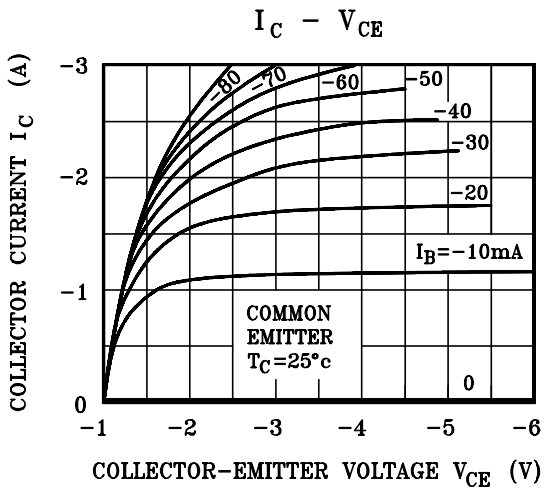
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -60V, I_E = 0$	-	-	-100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -7V, I_C = 0$	-	-	-100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50\text{mA}, I_B = 0$	-60	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5V, I_C = -0.5A$	100	-	300	
	$h_{FE(2)}$	$V_{CE} = -5V, I_C = -3A$	20	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -2A, I_B = -0.2A$	-	-0.5	-1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5V, I_C = -0.5A$	-	-0.7	-1.0	V
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -0.5A$	-	30	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1\text{MHz}$	-	45	-	pF
Switching Time	Turn-on Time	t_{on}	-	0.4	-	μS
	Storage Time	t_{stg}	-	1.7	-	
	Fall Time	t_f	-	0.5	-	

$-I_{B1} = I_{B2} = 0.2A$
DUTY CYCLE $\leq 1\%$

Note : $h_{FE(1)}$ Classification Y:100~200, GR:150~300

KTA1036



SAFE OPERATING AREA

