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HIGH CURRENT APPLICATION.

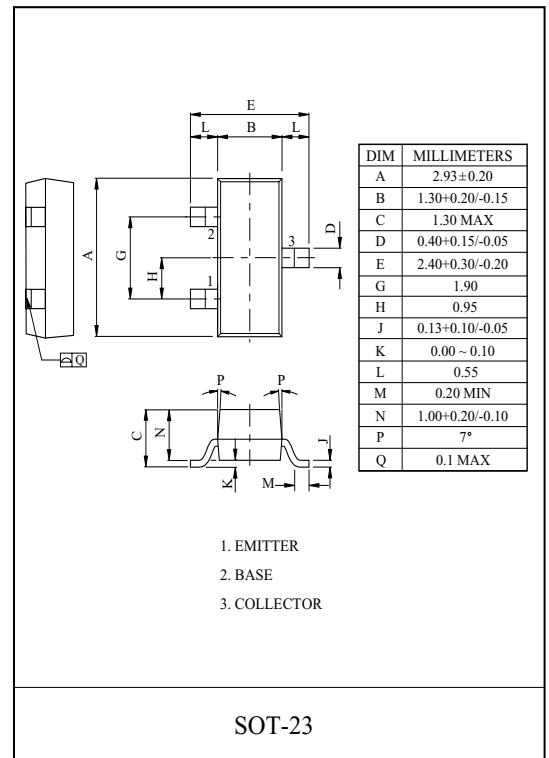
FEATURE

- Complementary to KTC8550S.

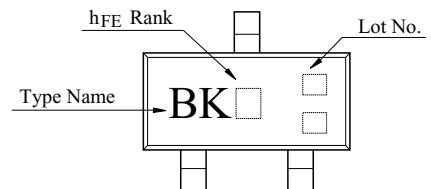
MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	35	V
Collector-Emitter Voltage	V _{CEO}	30	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	800	mA
Emitter Current	I _E	-800	mA
Collector Power Dissipation	P _C *	350	mW
Junction Temperature	T _j	150	
Storage Temperature Range	T _{stg}	-55 150	

* P_C : Package Mounted On 99.5% Alumina (10 × 8 × 0.6mm)



Marking



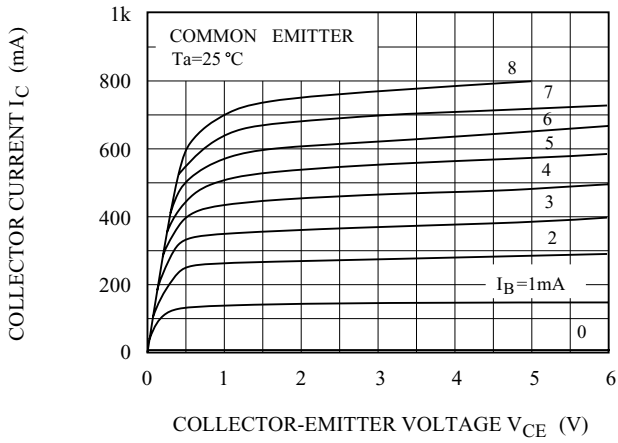
ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I _{CBO}	V _{CB} =15V, I _E =0	-	-	50	nA
Collector-Base Breakdown Voltage	V _{(BR)CBO}	I _C =0.5mA, I _E =0	35	-	-	V
Collector-Emitter Breakdown Voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	30	-	-	V
DC Current Gain	h _{FE} (1) (Note)	V _{CE} =1V, I _C =50mA	100	-	300	
	h _{FE} (2)	V _{CE} =1V, I _C =350mA	60	-	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =500mA, I _B =20mA	-	-	0.5	V
Base-Emitter Voltage	V _{BE}	V _{CE} =1V, I _C =500mA	-	-	1.2	V
Transition Frequency	f _T	V _{CE} =5V, I _C =10mA	-	120	-	MHz
Collector Output Capacitance	C _{ob}	V _{CB} =10V, f=1MHz, I _E =0	-	13	-	pF

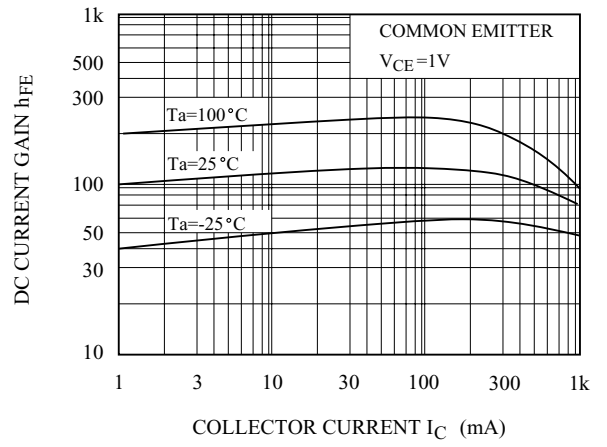
Note : h_{FE}(1) Classification C : 100 200, D : 150 300

KTC8050S

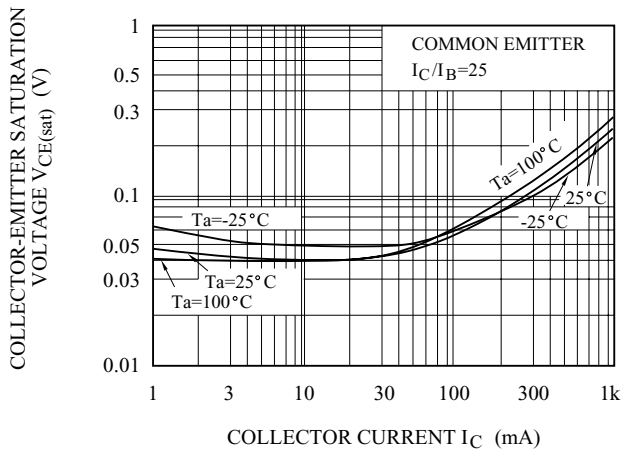
$I_C - V_{CE}$



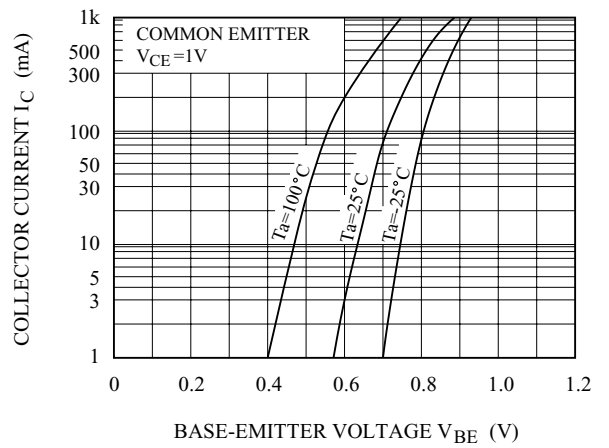
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



$P_c - T_a$

