

HIGH VOLTAGE APPLICATION.

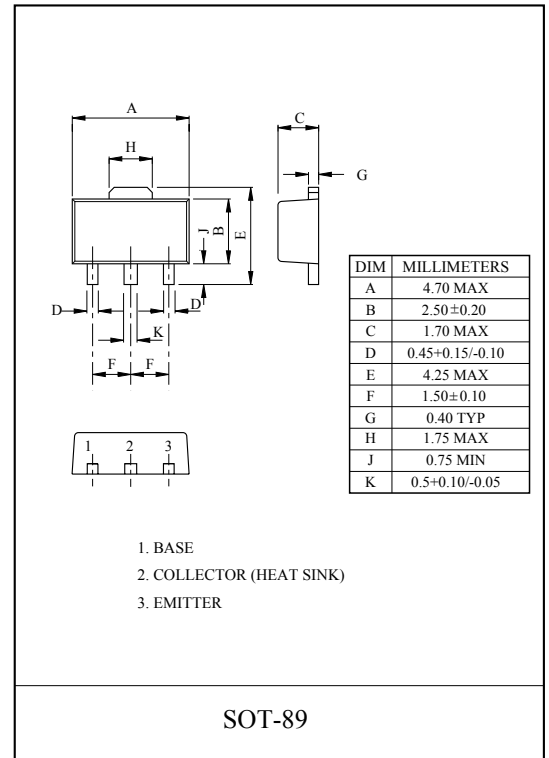
### FEATURES

- High Voltage :  $V_{CEO}=120V$ .
- High Transition Frequency :  $f_T=120MHz(Typ.)$ .
- 1W(Monunted on Ceramic Substrate).
- Small Flat Package.
- Complementary to KTA1661.

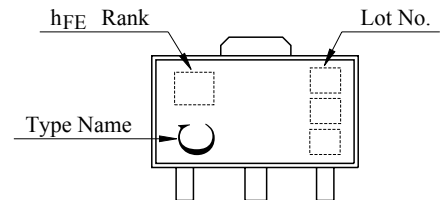
### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	120	V
Collector-Emitter Voltage	$V_{CEO}$	120	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	800	mA
Base Current	$I_B$	160	mA
Collector Power Dissipation	$P_C$	500	mW
	$P_C^*$	1	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_{stg}$	-55 ~ 150	°C

$P_C^*$  : KTC4373 mounted on ceramic substrate (250mm<sup>2</sup>x0.8t)



### Marking



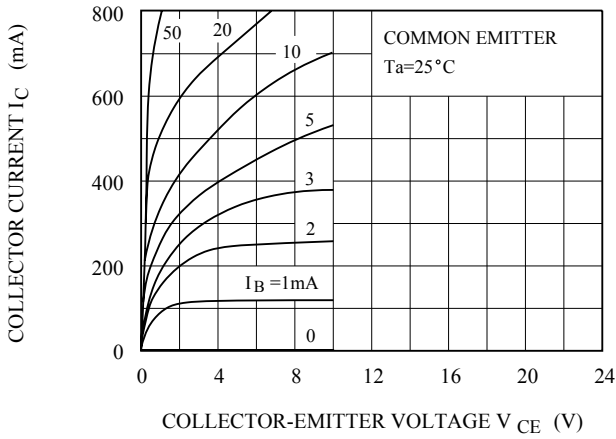
### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=120V, I_E=0$	-	-	100	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_C=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	120	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	5.0	-	-	V
DC Current Gain	$h_{FE}$ (Note)	$V_{CE}=5V, I_C=100mA$	80	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$	-	-	1.0	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=5V, I_C=500mA$	-	-	1.0	V
Transition Frequency	$f_T$	$V_{CE}=5V, I_C=100mA$	-	120	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=10V, I_E=0, f=1MHz$	-	-	30	pF

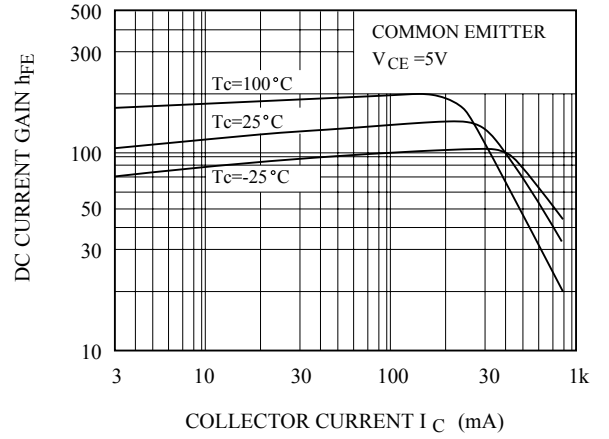
Note :  $h_{FE}$  Classification O:80 ~ 160, Y:120 ~ 240

# KTC4373

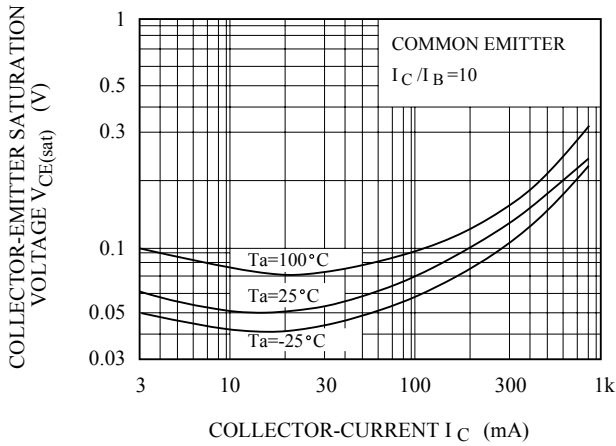
$I_C - V_{CE}$



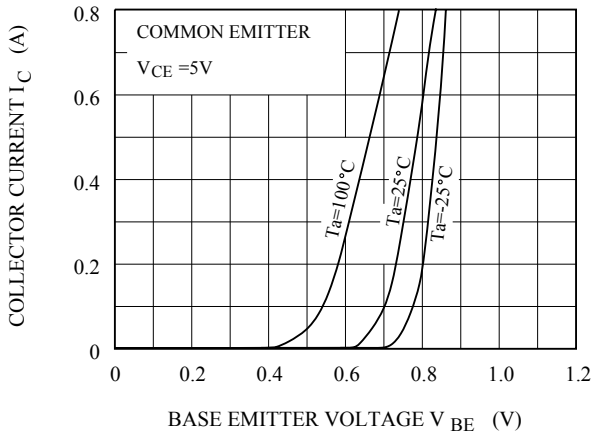
$h_{FE} - I_C$



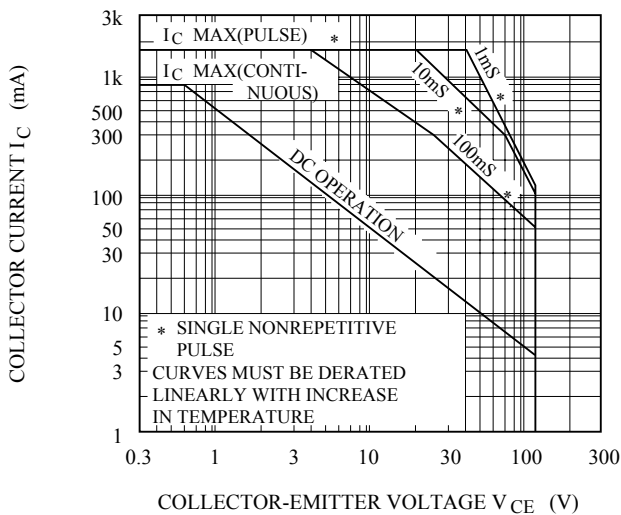
$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



SAFE OPERATING AREA



$P_C - T_a$

