

### GENERAL PURPOSE APPLICATION.

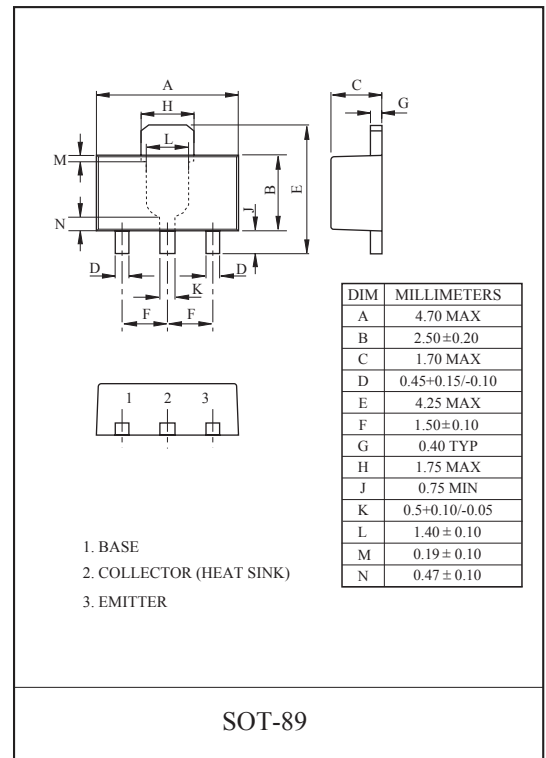
### FEATURES

- 1W (Mounted on Ceramic Substrate).
- Small Flat Package.
- Complementary to KTD1898.
- Suffix U : Qualified to AEC-Q101.  
ex) KTB1260-Y-RTF/PU

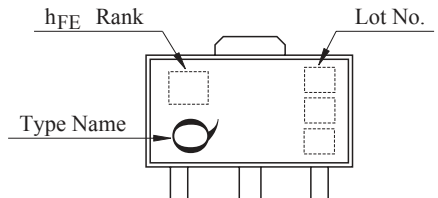
### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CB0}$	-80	V
Collector-Emitter Voltage	$V_{CE0}$	-80	V
Emitter-Base Voltage	$V_{EB0}$	-5	V
Collector Current	$I_C$	-1	A
Emitter Current	$I_E$	1	A
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

\* Mounted on ceramic substrate(250mm<sup>2</sup> × 0.8t)



### Marking



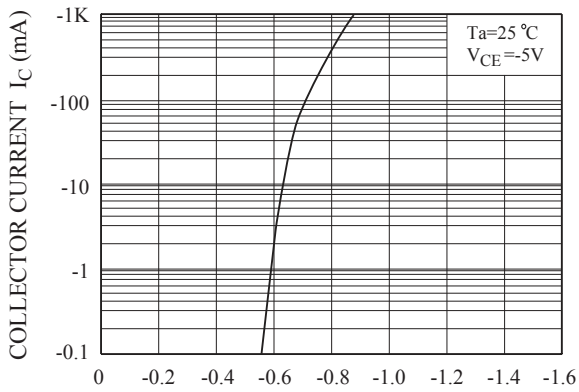
### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-60V, I_E=0$	-	-	-1	μA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=-4V, I_C=0$	-	-	-1	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-80	-	-	V
DC Current Gain	$h_{FE}(\text{Note})$	$V_{CE}=-3V, I_C=-100mA$	120	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$	-	-	-0.4	V
Transition Frequency	$f_T$	$V_{CE}=-5V, I_C=-50mA, f=30MHz$	-	100	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$	-	25	-	pF

Note : h<sub>FE</sub> Classification Y:120 ~ 240

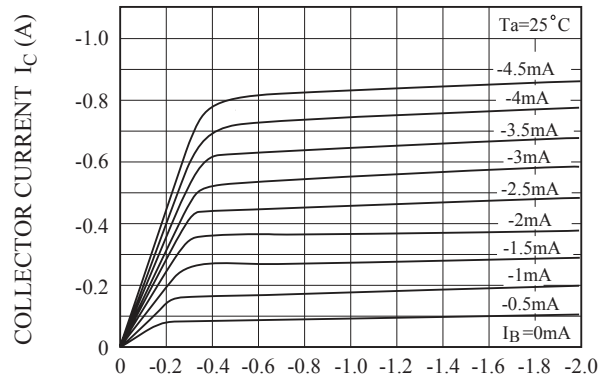
# KTB1260

$I_C - V_{BE}$



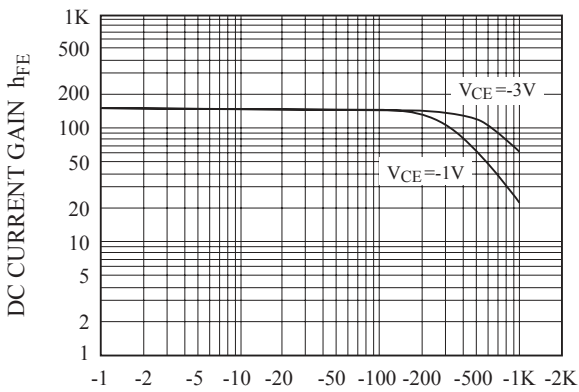
BASE-EMITTER VOLTAGE  $V_{BE}$  (V)

$I_C - V_{CE}$



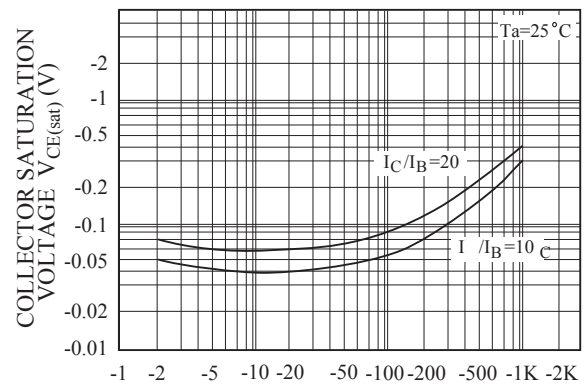
COLLECTOR-EMITTER VOLTAGE  $V_{CE}$  (V)

$h_{FE} - I_C$



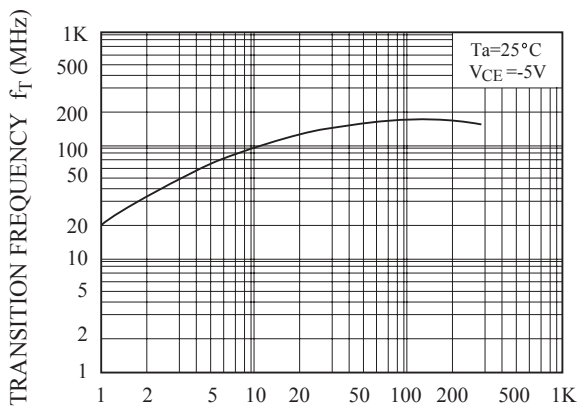
COLLECTOR CURRENT  $I_C$  (mA)

$V_{CE(sat)} - I_C$



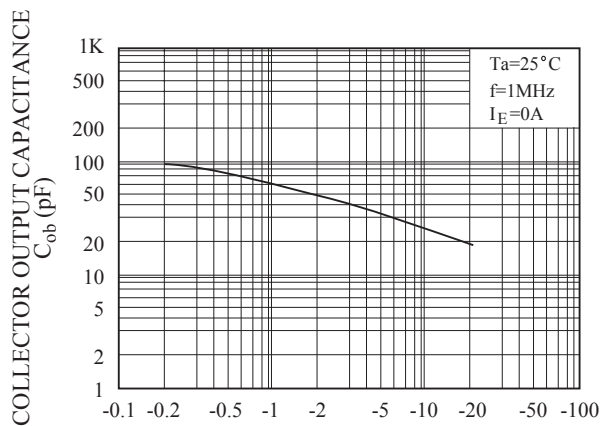
COLLECTOR CURRENT  $I_C$  (mA)

$f_T - I_E$



EMITTER CURRENT  $I_C$  (mA)

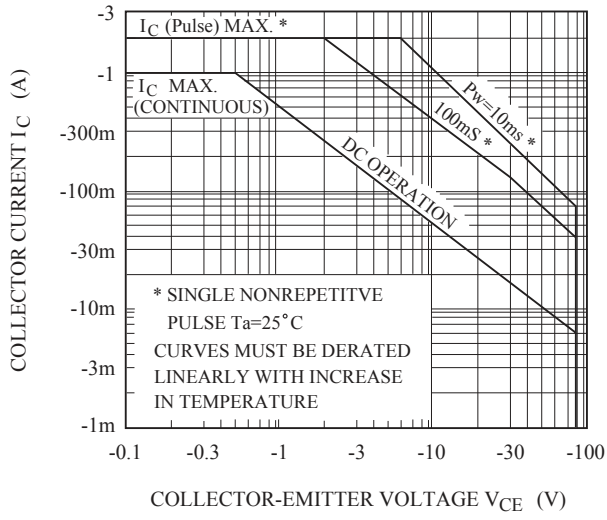
$C_{ob} - V_{CB}$



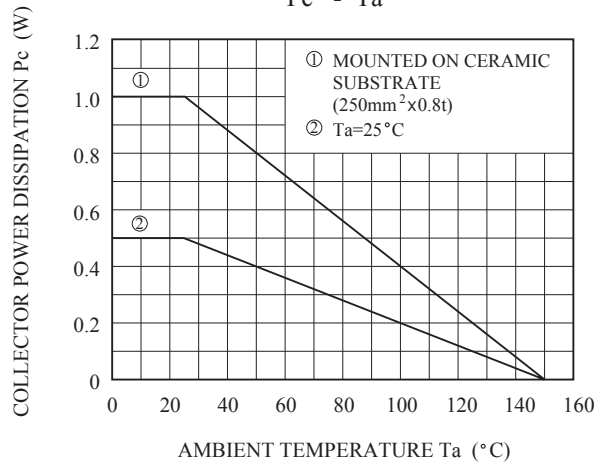
COLLECTOR-BASE VOLTAGE  $V_{CB}$  (V)

# KTB1260

SAFE OPERATING AREA



$P_c - T_a$



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1. The products described in this data are intended to be used in general-purpose electronic equipment (Office equipment, telecommunication equipment, measuring equipment, home appliances)
2. When you intend to use these products with equipment or device which require an extremely high of reliability and special applications (such as automobile, air travel aerospace, transportation equipment, life support, system and safety devices) in which special quality and reliability and the failure or malfunction of products may directly jeopardize or harm the human body or damage to property and any application other than the standard application intended, please be sure to consult with our sales representative in advance.
3. On designing your application, please use product within the ranges guaranteed by KEC for maximum rating, operating supply voltage range, heat radiation characteristics and other characteristics. User shall be responsible for failure or damage when used beyond the guaranteed ranges.
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5. What are described in the data may be changed without any prior notice to reflect new technical development. Please confirm that you have received the latest product standards or specification before final design, purchase or use.
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