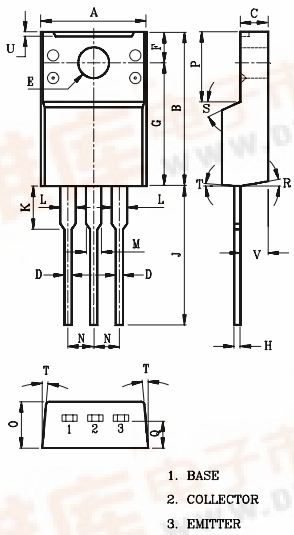
查询KTB1366供应商 捷多邦，专业PCB打样工厂，24小时加急出货

GENERAL PURPOSE APPLICATION.

FEATURES

- Low Collector Saturation Voltage
  : $V_{CE(sat)}$=-1.0V(Max.) at I_C=-2A, I_B=-0.2A.
- Collector Power Dissipation
  : P_C=25W (Tc=25℃)
- Complementary to KTD2058.



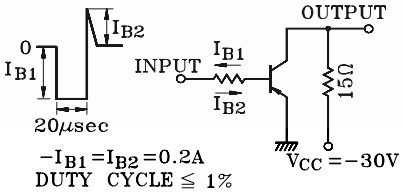
DIM	MILLIMETERS
A	10.30 MAX
B	15.30 MAX
C	2.70±0.30
D	0.85 MAX
E	ø3.20±0.20
F	3.00±0.30
G	12.30 MAX
H	0.75 MAX
J	13.60±0.50
K	3.90 MAX
L	1.20
M	1.30
N	2.54
O	4.50±0.20
P	6.80
Q	2.60±0.20
R	10°
S	25°
T	5°
U	0.5
V	2.60±0.15

TO-220IS

MAXIMUM RATINGS (Ta=25℃)

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	Ta=25℃	P_C	2	W
	Tc=25℃		25	
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55~150	℃

ELECTRICAL CHARACTERISTICS(Ta=25℃)

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=-50mA, I_B=0	-60	-	-	V
DC Current Gain		$h_{FE}(1)$ (Note)	V_{CE}=-5V, I_C=-0.5A	60	-	200	
		$h_{FE}(2)$	V_{CE}=-5V, I_C=-3A	20	-	-	
Collector Emitter Saturation Voltage		$V_{CE(sat)}$	I_C=-2A, I_B=-0.2A	-	-0.25	-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	-	9	-	MHz
Collector Output Capacitance		C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	150	-	pF
Switching Time	Turn-on Time	t_{on}		-	0.4	-	μS
	Storage Time	t_{stg}		-	1.7	-	
	Fall Time	t_f		-	0.5	-	

Note : $h_{FE}(1)$ Classification O:60~120, Y:100~200

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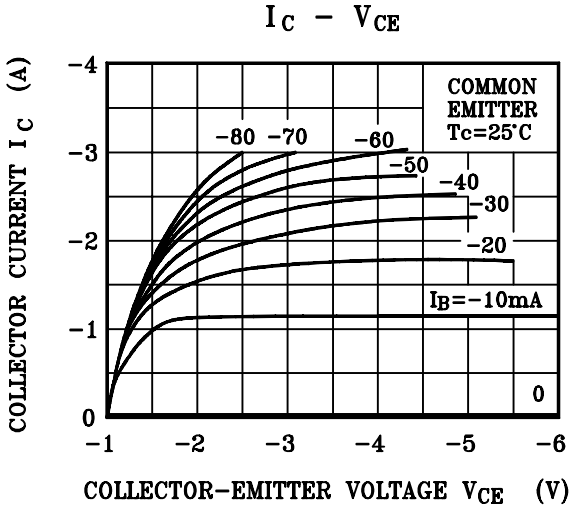
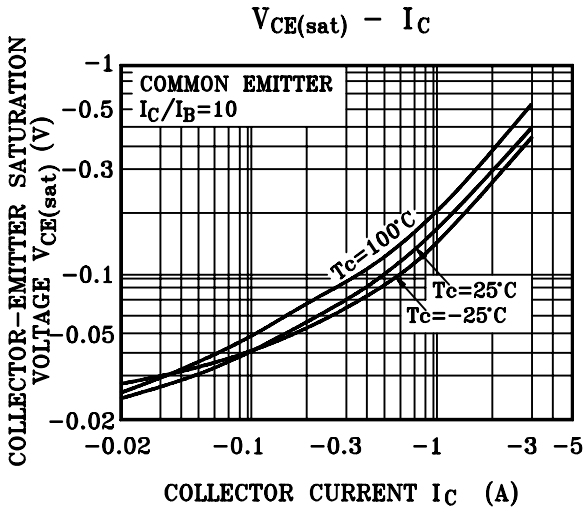
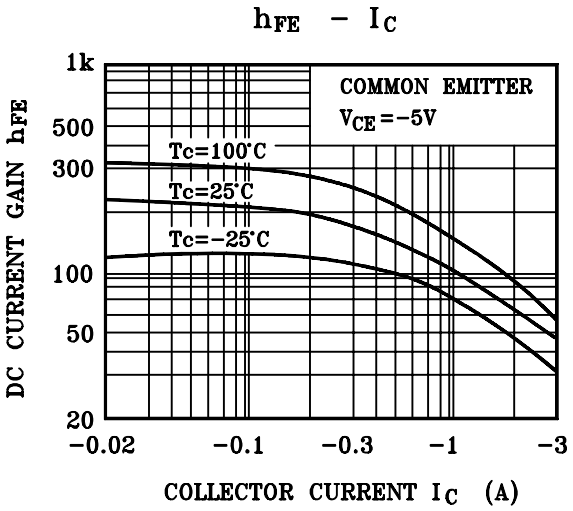
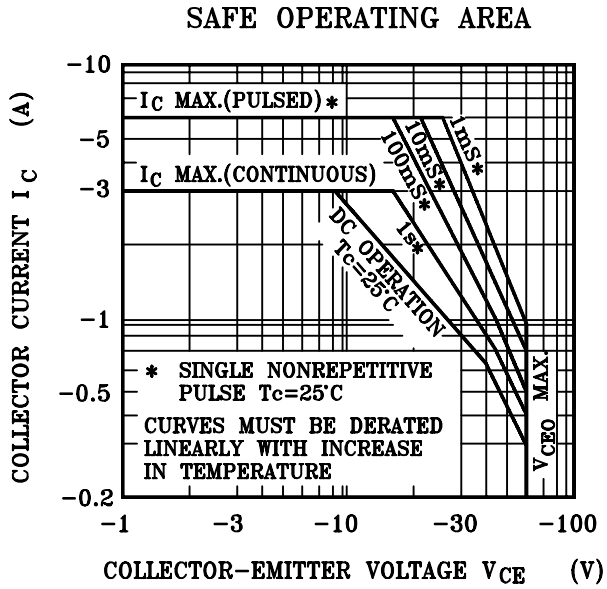
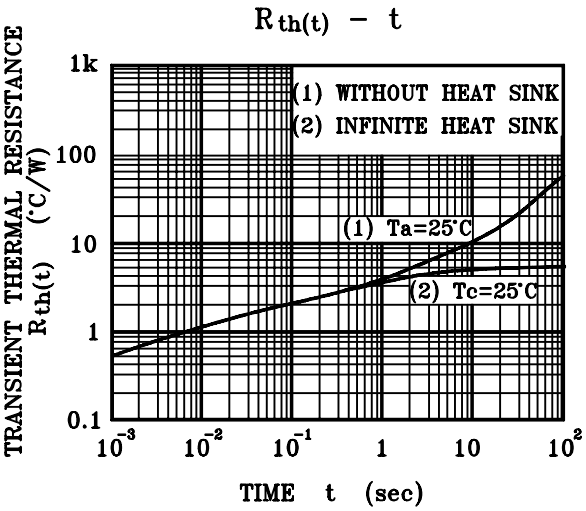

I_C – V_{CE}
COMMON EMITTER
Tc=25°C
−80 −70 −60 −50 −40 −30 −20
I_B=−10mA
0
COLLECTOR CURRENT I_C (A)
COLLECTOR−EMITTER VOLTAGE V_{CE} (V)


$V_{CE(sat)}$ – I_C
COMMON EMITTER
I_C/I_B=10
Tc=100°C
Tc=25°C
Tc=−25°C
COLLECTOR−EMITTER SATURATION VOLTAGE $V_{CE(sat)}$ (V)
COLLECTOR CURRENT I_C (A)


h_{FE} – I_C
COMMON EMITTER
V_{CE}=−5V
Tc=100°C
Tc=25°C
Tc=−25°C
DC CURRENT GAIN h_{FE}
COLLECTOR CURRENT I_C (A)


SAFE OPERATING AREA
I_C MAX.(PULSED)*
I_C MAX.(CONTINUOUS)
1mS*
10mS*
100mS*
1s*
DC OPERATION Tc=25°C
* SINGLE NONREPETITIVE PULSE Tc=25°C
CURVES MUST BE DERATED LINEARLY WITH INCREASE IN TEMPERATURE
V_{CEO} MAX.
COLLECTOR CURRENT I_C (A)
COLLECTOR−EMITTER VOLTAGE V_{CE} (V)


$R_{th(t)}$ – t
(1) WITHOUT HEAT SINK
(2) INFINITE HEAT SINK
(1) Ta=25°C
(2) Tc=25°C
TRANSIENT THERMAL RESISTANCE $R_{th(t)}$ (°C/W)
TIME t (sec)