查询KTB778供应商 捷多邦，专业PCB打样工厂，24小时加急出货

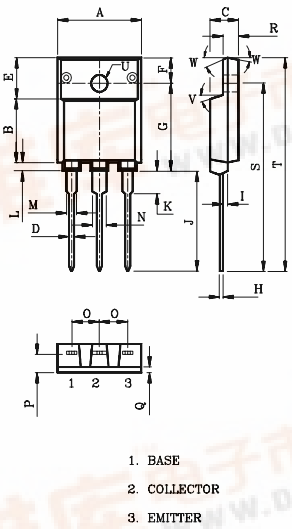
KEL
KOREA ELECTRONICS CO.,LTD.

SEMICONDUCTOR
TECHNICAL DATA

KTB778
TRIPLE DIFFUSED PNP TRANSISTOR

HIGH POWER AMPLIFIER APPLICATION.

FEATURES
- Complementary to KTD998.
- Recommended for 45~50W Audio Frequency Amplifier Output Stage.



DIM	MILLIMETERS
A	16.30 MAX
B	12.00±0.30
C	5.50±0.20
D	1.20 MAX
E	8.00
F	5.00
G	17.00±0.30
H	0.60+0.15/-0.10
I	2.50
J	20.0±0.1
K	4.00
L	2.00
M	2.20 MAX
N	3.05 MAX
O	5.45
P	3.50
Q	1.00
R	3.00±0.20
S	37.0
T	42.0
U	ø3.40+0.15/-0.10
V	10°
W	8°

TO-3P(H)IS

MAXIMUM RATINGS (Ta=25℃)

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	-10	A
Base Current	I_B	-1	A
Collector Power Dissipation (Tc=25℃)	P_C	80	W
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}=-120V, I_E=0	-	-	-10	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=-5V, I_C=0	-	-	-10	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=-50mA, I_B=0	-120	-	-	V
DC Current Gain	h_{FE}(Note)	V_{CE}=-5V, I_C=-1A	55	-	160	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-5A, I_B=-0.5A	-	-	-2.5	V
Base-Emitter Voltage	V_{BE}	V_{CE}=-5V, I_C=-5A	-	-	-1.5	V
Transition Frequency	f_T	V_{CE}=-5V, I_C=-1A	-	10	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	280	-	pF

Note : h_{FE} Classification R:55~110 , O:80~160

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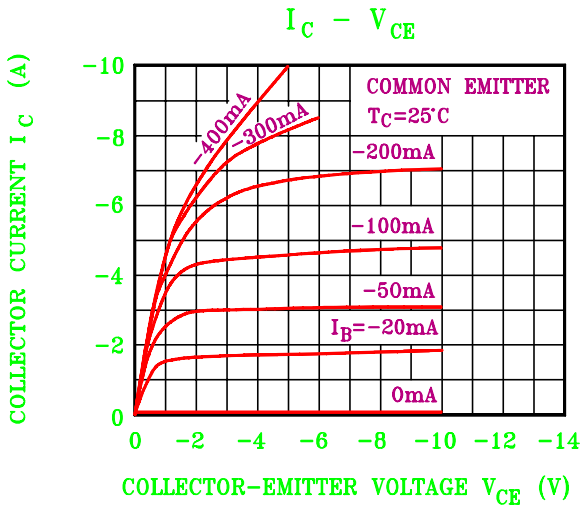
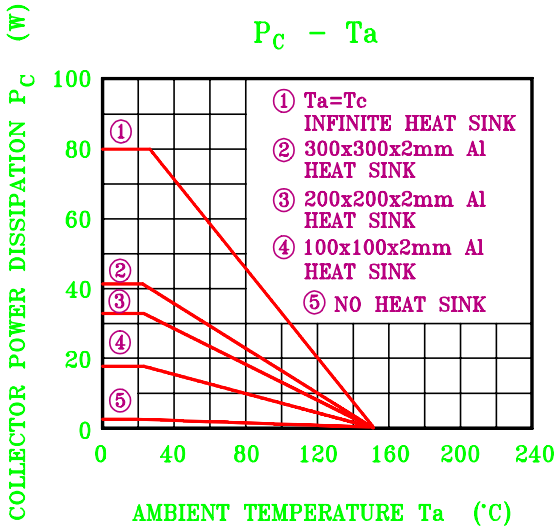
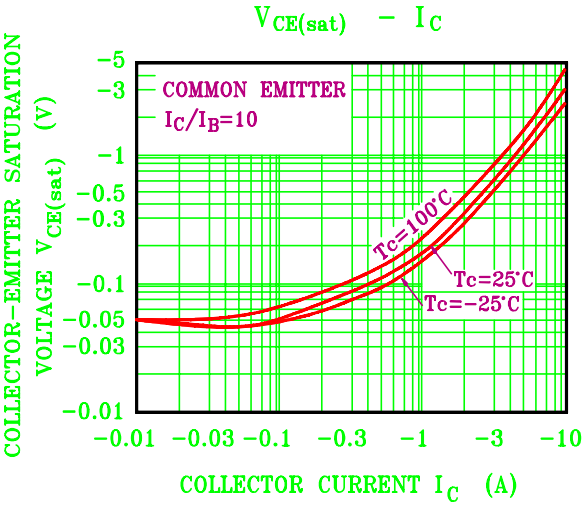
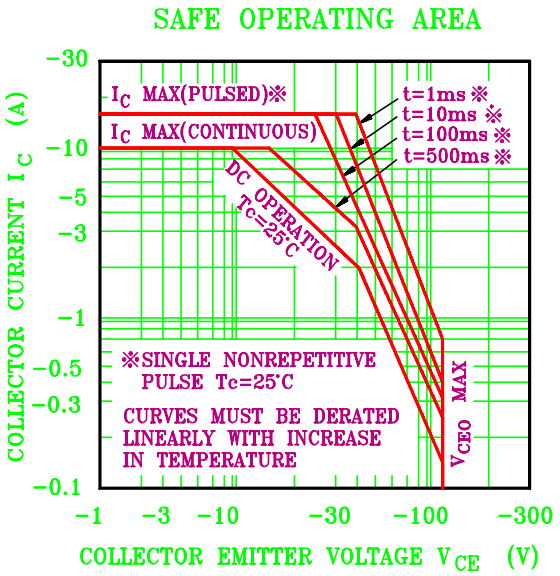
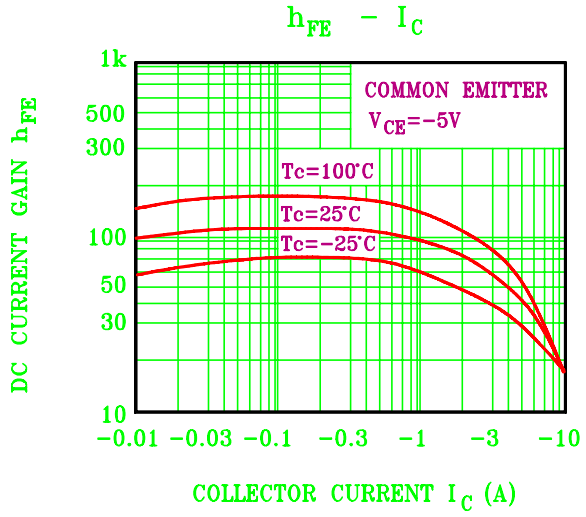

I_C – V_{CE}
COMMON EMITTER
T_C=25°C
−400mA
−300mA
−200mA
−100mA
−50mA
I_B=−20mA
0mA
COLLECTOR CURRENT I_C (A)
COLLECTOR−EMITTER VOLTAGE V_{CE} (V)


P_C – Ta
① Ta=Tc
INFINITE HEAT SINK
② 300x300x2mm Al
HEAT SINK
③ 200x200x2mm Al
HEAT SINK
④ 100x100x2mm Al
HEAT SINK
⑤ NO HEAT SINK
COLLECTOR POWER DISSIPATION P_C (W)
AMBIENT TEMPERATURE Ta (°C)


$V_{CE(sat)}$ – 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)


SAFE OPERATING AREA
I_C MAX(PULSED)※
I_C MAX(CONTINUOUS)
t=1ms ※
t=10ms ※
t=100ms ※
t=500ms ※
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)


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)