查询KTC2018供应商 捷多邦，专业PCB打样工厂，24小时加急出货

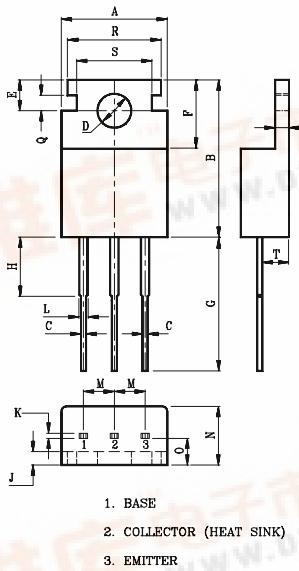
KEL
KOREA ELECTRONICS CO.,LTD.

SEMICONDUCTOR
TECHNICAL DATA

KTC2018
EPITAXIAL PLANAR NPN TRANSISTOR

GENERAL PURPOSE APPLICATION.

FEATURES
- High Breakdown Voltage : V_{CEO}=100V.
- Low Collector Saturation Voltage :$V_{CE(sat)}$=2.0V(Max.).
- Complementary to KTA1038.



DIM	MILLIMETERS
A	10.30 MAX
B	15.30 MAX
C	0.80
D	ø3.60±0.20
E	3.00
F	6.70 MAX
G	13.60±0.50
H	5.60 MAX
J	1.37 MAX
K	0.50
L	1.50 MAX
M	2.54
N	4.70 MAX
O	2.60
P	1.50 MAX
Q	1.50
R	9.50±0.20
S	8.00±0.20
T	2.90 MAX

TO-220AB

MAXIMUM RATINGS (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V_{EB0}	5	V
Collector Current	I_C	5	A
Emitter Current	I_E	-5	A
Base Current	I_B	0.5	A
Collector Power Dissipation (Tc=25℃)	P_C	40	W
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55～150	℃

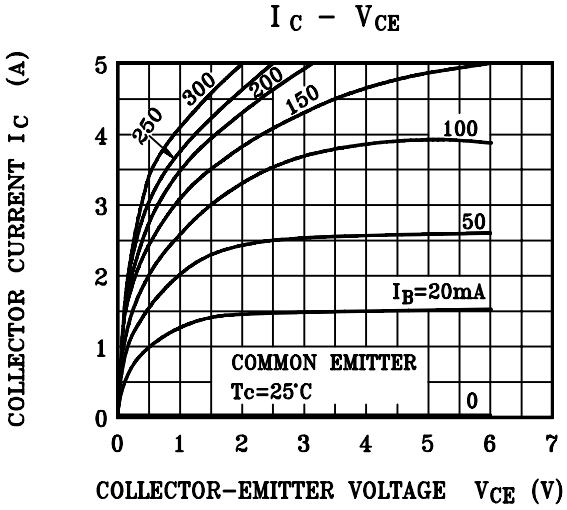
ELECTRICAL CHARACTERISTICS (Ta=25℃)

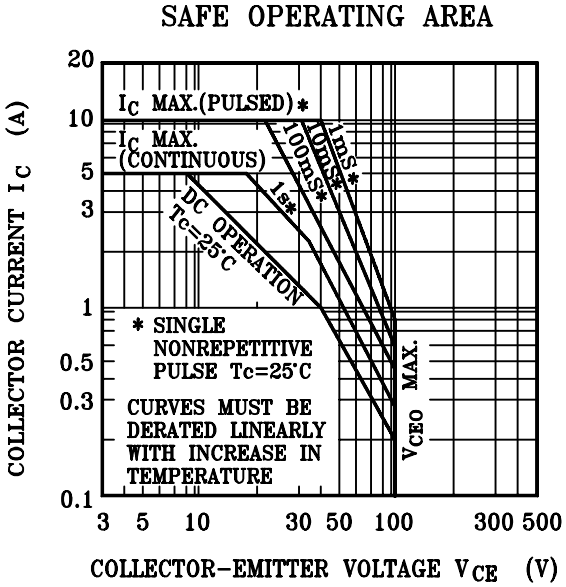
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=100V, I_E=0	-	-	100	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=-5V, I_C=0	-	-	1.0	mA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=50mA, I_B=0	100	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=10mA, I_C=0	5.0	-	-	V
DC Current Gain	$h_{FE}(1)$ (Note)	V_{CE}=5V, I_C=1A	70	-	240	
	$h_{FE}(2)$	V_{CE}=5V, I_C=4A	20	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=4A, I_B=0.4A	-	-	2.0	V
Base-Emitter Voltage	V_{BE}	V_{CE}=5V, I_C=1A	-	-	1.5	V
Transition Frequency	f_T	V_{CE}=5V, I_C=1A	-	30	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=10V, I_E=0, f=1MHz	-	40	-	pF

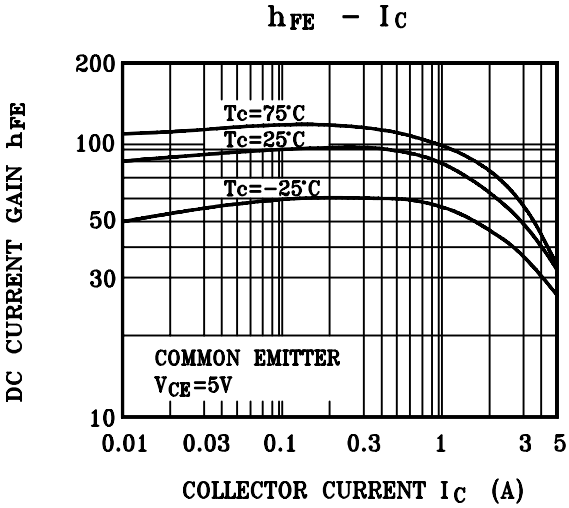
Note : $h_{FE}(1)$ Classification 0:70～140, Y:120～240

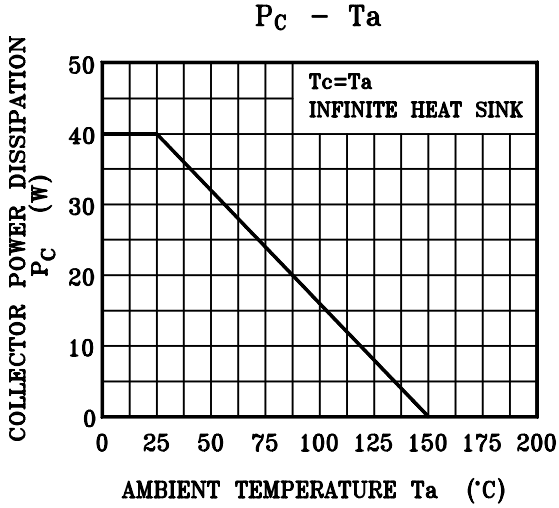
找PDF 维库一下 pdf.dzsc.com

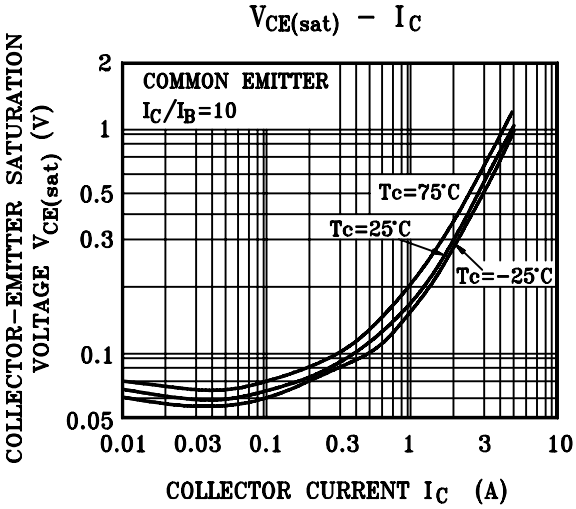
KTC2018


I C − V CE
COLLECTOR CURRENT I C (A)
COLLECTOR−EMITTER VOLTAGE V CE (V)
250
300
200
150
100
50
I B=20mA
0
COMMON EMITTER
Tc=25°C


SAFE OPERATING AREA
COLLECTOR CURRENT I C (A)
COLLECTOR−EMITTER VOLTAGE V CE (V)
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.


h FE − I C
DC CURRENT GAIN h FE
COLLECTOR CURRENT I C (A)
Tc=75°C
Tc=25°C
Tc=−25°C
COMMON EMITTER
V CE=5V


P C − Ta
COLLECTOR POWER DISSIPATION
P C (W)
AMBIENT TEMPERATURE Ta (°C)
Tc=Ta
INFINITE HEAT SINK


V CE(sat) − I C
COLLECTOR−EMITTER SATURATION
VOLTAGE V CE(sat) (V)
COLLECTOR CURRENT I C (A)
COMMON EMITTER
I C/I B=10
Tc=75°C
Tc=25°C
Tc=−25°C