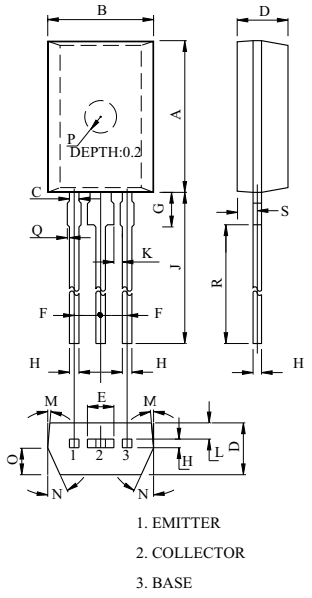
KTB764

TRIPLE DIFFUSED PNP TRANSISTOR

VOLTAGE REGULATOR, RELAY,
LAMP DRIVER, INDUSTRIAL USE

FEATURES

- High Voltage : V_{CEO}=-50V(Min.).
- High Current : I_C(Max.)=-1A.
- High Transition Frequency : f_T=150MHz(Typ.).
- Wide Area of Safe Operation.
- Complementary to KTD863.



DIM	MILLIMETERS
A	7.20 MAX
B	5.20 MAX
C	0.60 MAX
D	2.50 MAX
E	1.15 MAX
F	1.27
G	1.70 MAX
H	0.55 MAX
J	14.00±0.50
K	0.35 MIN
L	0.75±0.10
M	4°
N	25°
O	1.25
P	Φ1.50
Q	0.10 MAX
R	12.50±0.50
S	1.00

TO-92L

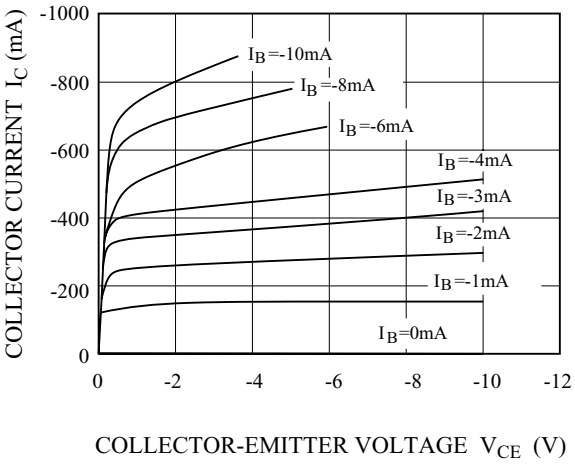
MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	-60	V
Collector-Emitter Voltage		V_{CEO}	-50	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current	DC	I_C	-1	A
	Pulse	I_{CP}	-2	
Collector Power Dissipation		P_C	1	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55 150	℃

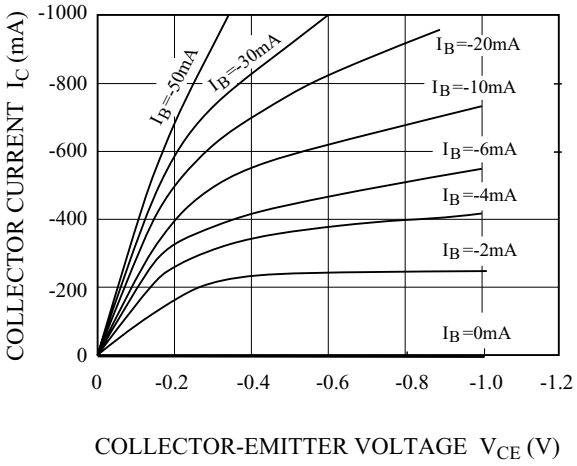
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=-50V, I_E=0	-	-	-1	μA
Collector Cut-off Current	I_{CEO}	V_{CE}=-50V, I_B=0	-	-	-1	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=-4V, I_C=0	-	-	-1	μA
DC Current Gain	h_{FE}(1)	V_{CE}=-2V, I_C=-50mA	60	-	320	
	h_{FE}(2)	V_{CE}=-2V, I_C=-1A	30	-	-	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=-1mA, I_B=0	-50	-	-	V
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=-500mA, I_B=-50mA	-	-0.2	-0.7	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=-500mA, I_B=-50mA	-	-0.85	-1.2	V
Transition Frequency	f_T	V_{CE}=-10V, I_C=-50mA	-	150	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=-10V, I_E=0, f=1MHz	-	20	-	pF

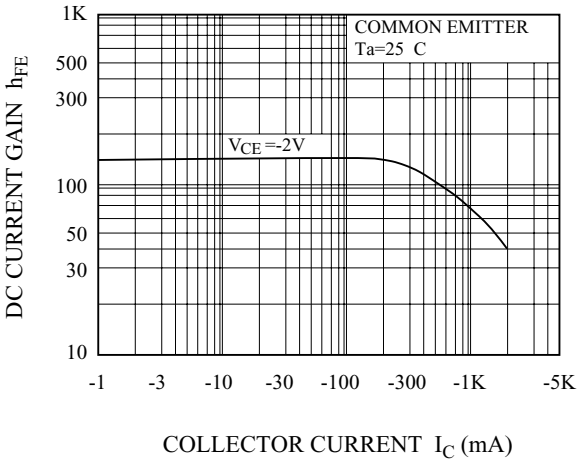
I_C - V_{CE}



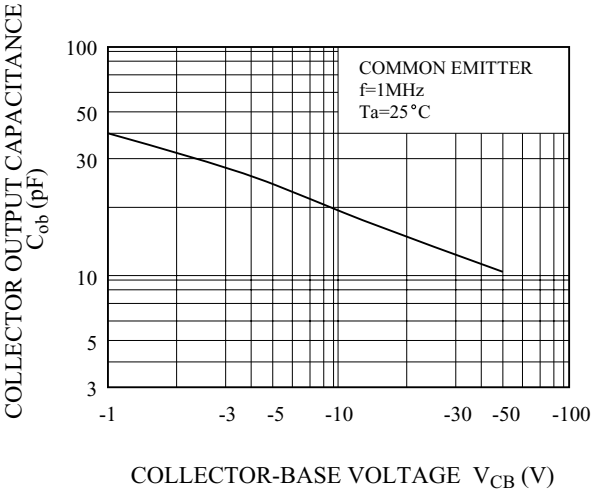
I_C - V_{CE}



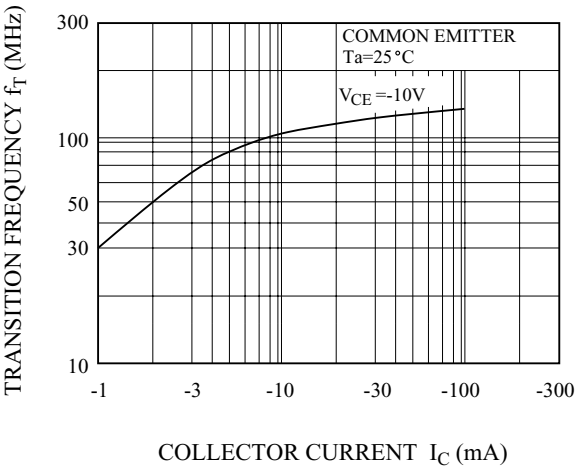
h_{FE} - I_C



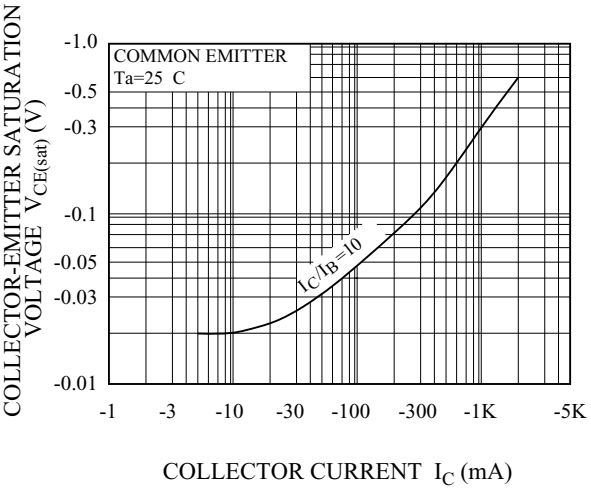
C_{ob} - V_{CB}



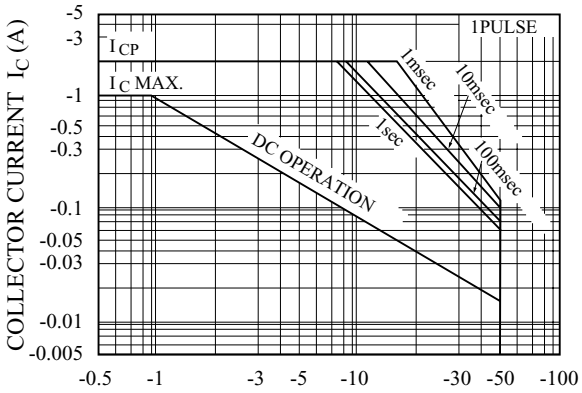
f_T - I_C



$V_{CE(sat)}$ - I_C



SAFE OPERATING AREA



Pc - Ta