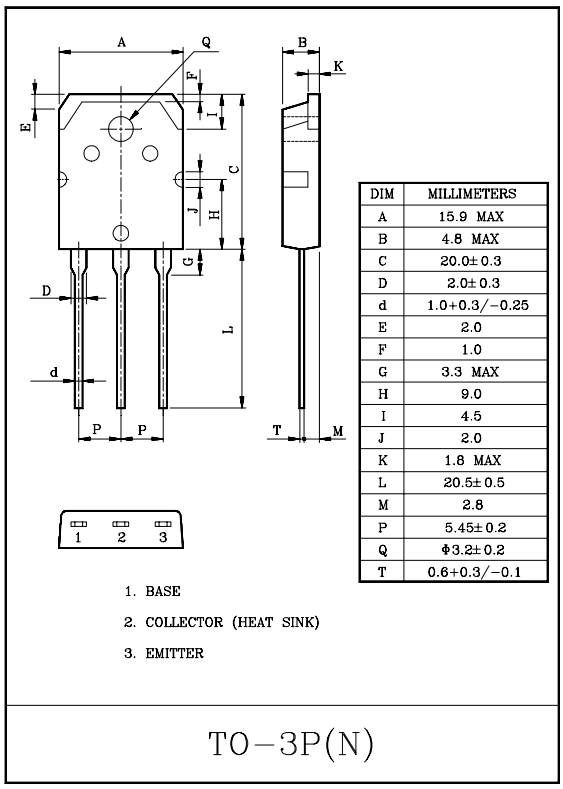
KTD921

TRIPLE DIFFUSED NPN TRANSISTOR

COLOR & B/W TV POWER SUPPLY
INDUSTRIAL USE POWER SUPPLY
(SERIES REGULATOR)
GENERAL PURPOSE POWER AMPLIFIER
DARLINGTON TRANSISTOR



DIM	MILLIMETERS
A	15.9 MAX
B	4.8 MAX
C	20.0±0.3
D	2.0±0.3
d	1.0+0.3/−0.25
E	2.0
F	1.0
G	3.3 MAX
H	9.0
I	4.5
J	2.0
K	1.8 MAX
L	20.5±0.5
M	2.8
P	5.45±0.2
Q	Φ3.2±0.2
T	0.6+0.3/−0.1

TO-3P(N)

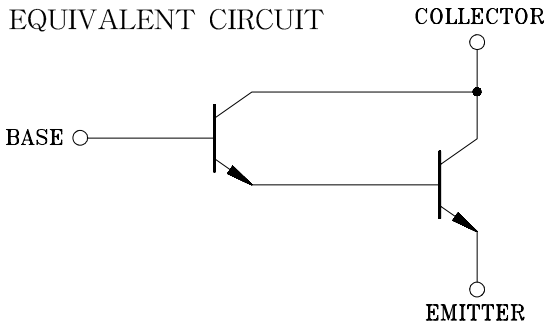
FEATURES

- Ultra High β.
- High h_{FE} : 700(Min.) (I_C=1A)
- Good Safe Operating Area.
- High reliability.

MAXIMUM RATINGS (Tc=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	200	V
Collector-Emitter Voltage	V_{CEO}	180	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Current	I_C	5	A
Base Current	I_B	0.5	A
Collector Power Dissipation	P_C	80	W
Storage Temperature Range	T_{stg}	-55~150	℃

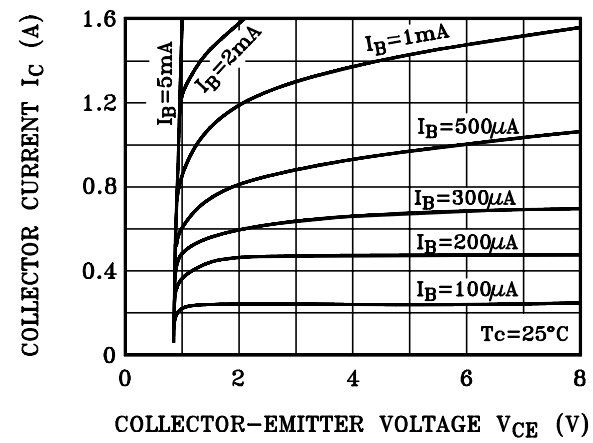
EQUIVALENT CIRCUIT



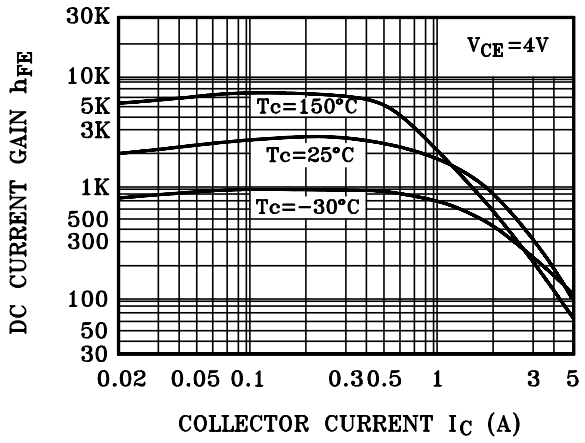
ELECTRICAL CHARACTERISTICS (Tc=25℃)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector-Base Voltage	V_{CBO}	I_{CBO}=1mA	200	-	-	V
Collector-Emitter Voltage	V_{CEO}	I_{CEO}=10mA	180	-	-	V
Emitter-Base Voltage	V_{EBO}	I_{EBO}=1mA	6	-	-	V
Collector Cut-off Current	I_{CBO}	V_{CBO}=200V	-	-	1.0	mA
Emitter Cut-off Current	I_{EBO}	V_{EBO}=6V	-	-	1.0	mA
DC Current Gain	h_{FE}	V_{CE}=4V, I_C=1A	700	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=1.5A, I_B=50mA	-	-	1.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=1.5A, I_B=50mA	-	-	2.0	V

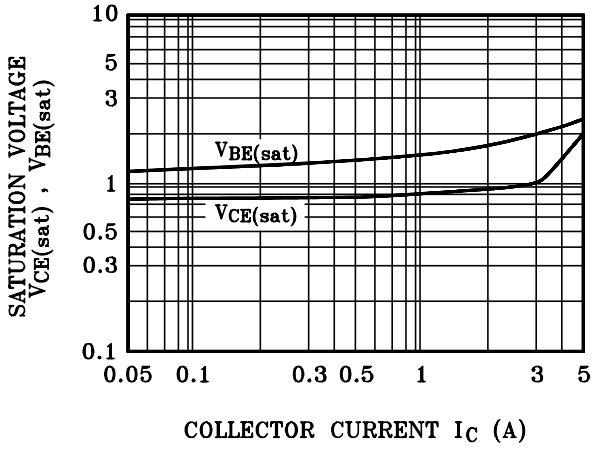
I_C – V_{CE}



h_{FE} – I_C



$V_{CE(sat)}$, $V_{BE(sat)}$ – I_C



SAFE OPERATING AREA