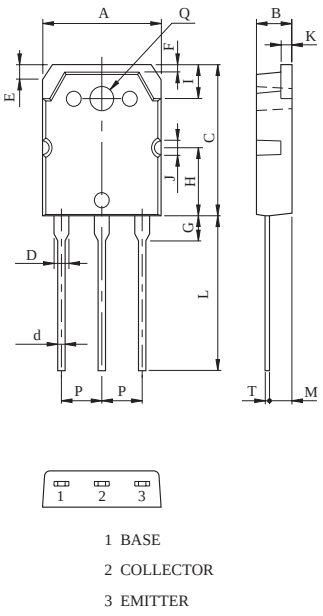
TRIPLE DIFFUSED NPN TRANSISTOR

FEATURES

- Recommended for 45~50W Audio Frequency Amplifier Output Stage.

APPLICATIONS

- High Power Amplifier



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)

MAXIMUM RATING (Ta=25℃ unless otherwise noted)

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	℃

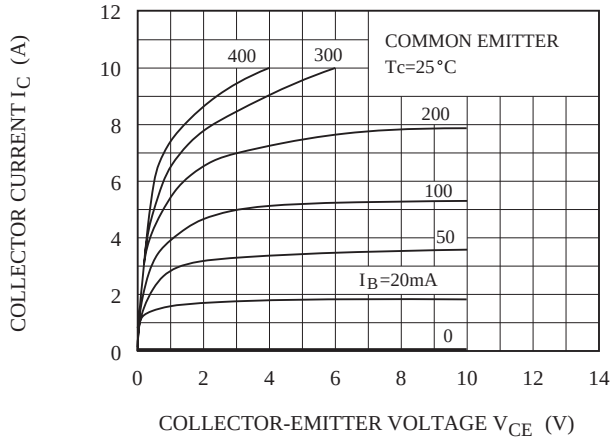
ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}= 120V, I_E=0	-	-	10	uA
Emitter Cut-off Current	I_{EBO}	V_{EB}= 5V, I_C=0	-	-	10	uA
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= 6A, I_B= 0.6A	-	-	2.0	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	-	12	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}= 10V, I_E=0, f=1MHz	-	170	-	pF

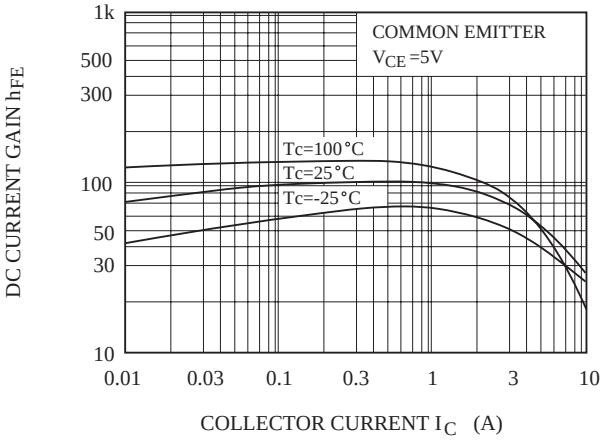
Note : h_{FE} Classification R:55~110, O:80~160

RATINGS AND CHARACTERISTIC CURVES

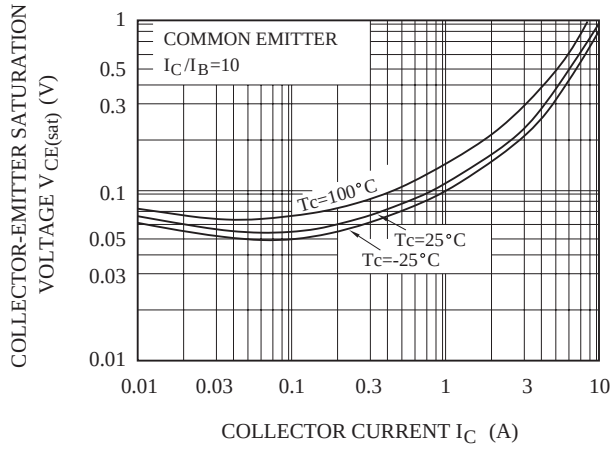
I_C - V_{CE}



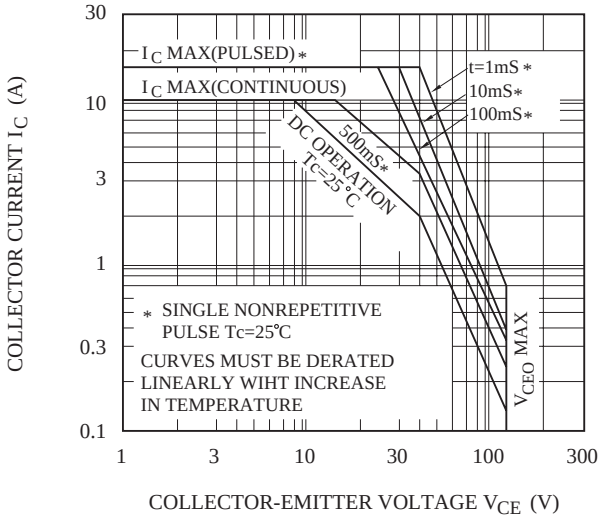
h_{FE} - I_C



$V_{CE(sat)}$ - I_C



SAFE OPERATING AREA



Pc - Ta