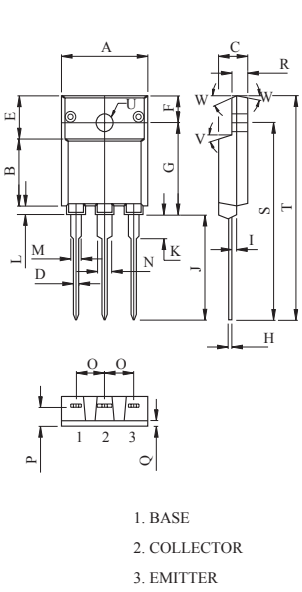
COLOR TV HORIZONTAL OUTPUT APPLICATION.

FEATURES

- High Voltage : $V_{CBO} \geqq 1500V$.
- Low Saturation Voltage : $V_{CE(sat)}=5V$(Max.) ($I_C=4A$, $I_B=0.8A$).
- High Speed : $t_f=0.3\mu S$(Typ.)
- Built-in Damper Diode.
- Collector Metal (Fin) is Fully Covered with Mold Resin.



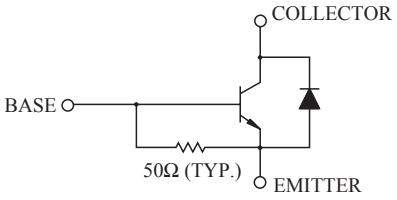
DIM	MILLIMETERS
A	16.30 MAX
B	12.00±0.30
C	5.50±0.20
D	1.20 MAX
E	8.00
F	5.00
G	17.00±0.30
H	0.60+0.15/-0.10
I	2.50
J	20.0±0.1
K	4.00
L	2.00
M	2.20 MAX
N	3.05 MAX
O	5.45
P	3.50
Q	1.00
R	3.00±0.20
S	37.0
T	42.0
U	Φ3.40+0.15/-0.10
V	10°
W	8°

TO-3P(H)IS

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	1500	V
Collector-Emitter Voltage		V_{CEO}	600	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current	DC	I_C	6	A
	Pulse	I_{cp}	12	
Base Current		I_B	3	A
Collector Power Dissipation		P_C	50	W
Junction Temperature		T_j	150	℃
Storage Temperature Range		T_{stg}	-55～150	℃

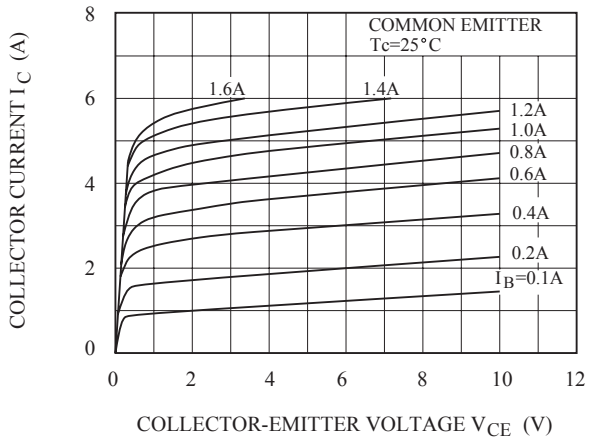
EQUIVALENT CIRCUIT



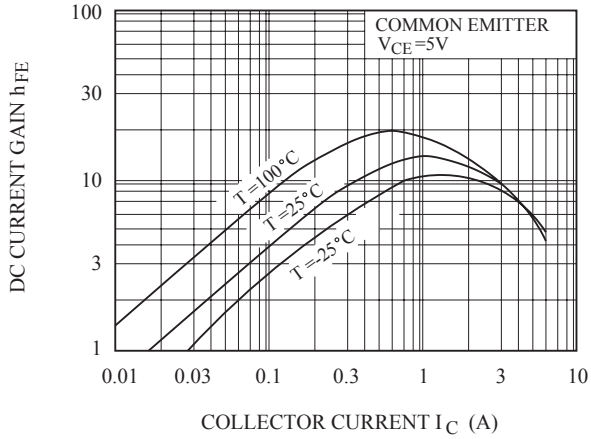
ELECTRICAL CHARACTERISTICS (Ta=25℃)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current		I_{CBO}	$V_{CB}=1500V$, $I_E=0$	-	-	1	mA
Emitter Cut-off Current		I_{EBO}	$V_{EB}=5V$, $I_C=0$	67	-	200	mA
Emitter-Base Breakdown Voltage		V_{EBO}	$I_E=400mA$, $I_C=0$	5	-	-	V
DC Current Gain		$h_{FE}(1)$	$V_{CE}=5V$, $I_C=1A$	8	-	25	
		$h_{FE}(2)$	$V_{CE}=5V$, $I_C=4A$	5	-	9	
Collector-Emitter Saturation Voltage		$V_{CE(sat)}$	$I_C=4A$, $I_B=0.8A$	-	-	5	V
Base-Emitter Saturation Voltage		$V_{BE(sat)}$	$I_C=4A$, $I_B=0.8A$	-	0.9	1.2	V
Forward Voltage (Damper Diode)		$-V_F$	$I_F=6A$	-	1.6	2.0	V
Transition Frequency		f_T	$V_{CE}=10V$, $I_C=0.1A$	-	2	-	MHz
Collector Output Capacitance		C_{ob}	$V_{CB}=10V$, $I_E=0$, f=1MHz	-	95	-	pF
Switching Time	Storage Time	t_{stg}	$I_{CP}=4A$, $I_{B1(end)}=0.8A$	-	7.5	10	μS
	Fall Time	t_f	$f_H=15.75kHz$	-	0.3	0.6	

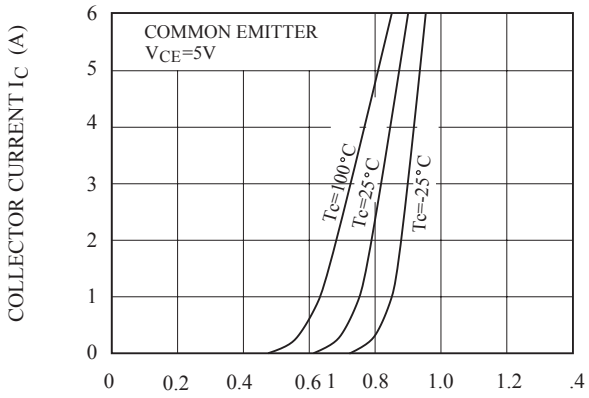
I_C - V_{CE}



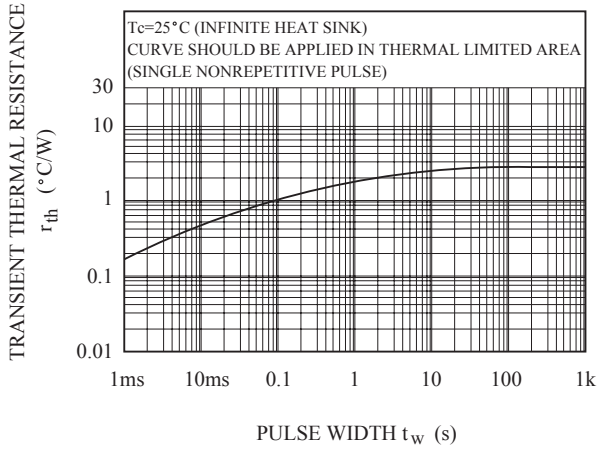
h_{FE} - I_C



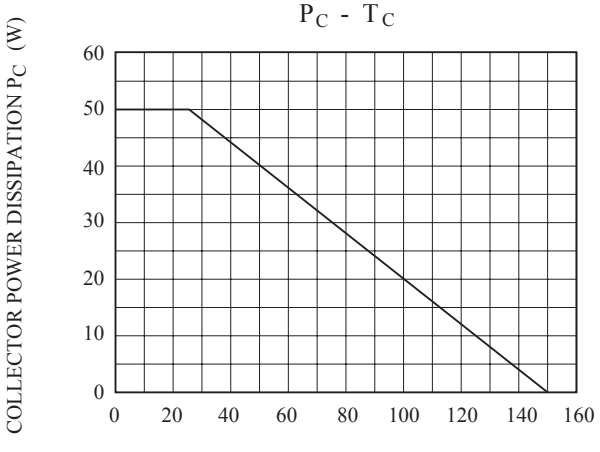
I_C - V_{BE}



r_{th} - t_w



P_C - T_C



SAFE OPERATING AREA