2SC2242

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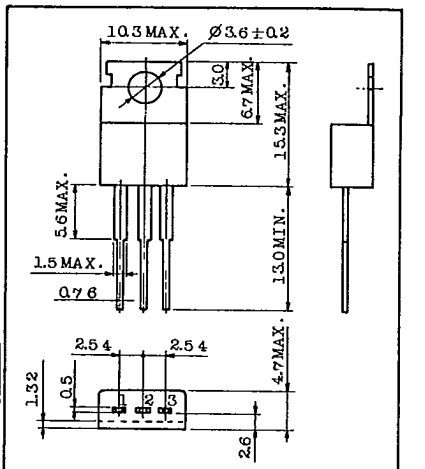
SILICON NPN TRIPLE DIFFUSED TYPE (PCT PROCESS)

POWER AMPLIFIER APPLICATIONS.
COLOR TV SOUND OUTPUT APPLICATIONS.

FEATURES:

- Recommended for Sound Output Stage in Line Operated TV.
- High Voltage : V_{CEO}=300V

Unit in mm



1. BASE
2. COLLECTOR (HEAT SINK)
3. EMITTER

JEDEC	TO-220AB
EIAJ	SC-46
TOSHIBA	2-10A1A

Weight : 1.9g

Mounting kit No. AC75

MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC		SYMBOL	RATING	UNIT
Collector-Base Voltage		V_{CBO}	300	V
Collector-Emitter Voltage		V_{CEO}	300	V
Emitter-Base Voltage		V_{EBO}	5	V
Collector Current		I_C	150	mA
Base Current		I_B	50	mA
Collector Power Dissipation	Ta=25°C	P_C	1.5	W
	Tc=25°C	P_C	25	
Junction Temperature		T_j	150	°C
Storage Temperature		T_{stg}	-55~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=240V, I_E=0	-	-	1.0	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=5V, I_C=0	-	-	1.0	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=5mA, I_B=0	300	-	-	V
DC Current Gain	h_{FE}	V_{CE}=10V, I_C=50mA	40	-	170	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=100mA, I_B=10mA	-	-	3.0	V
Base-Emitter Voltage	V_{BE}	V_{CE}=10V, I_C=50mA	0.6	-	0.9	V
Transition Frequency	f_T	V_{CE}=50V, I_C=20mA	20	50	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=50V, I_E=0, f=1MHz	-	5.5	12	pF

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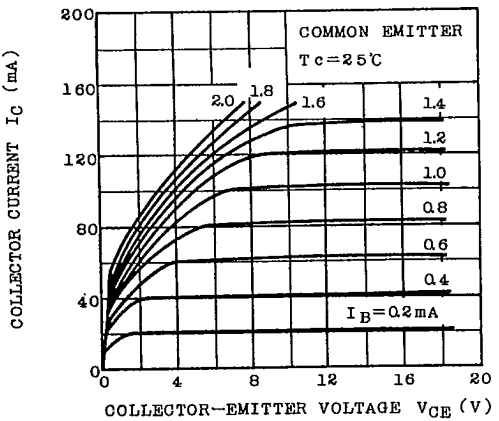
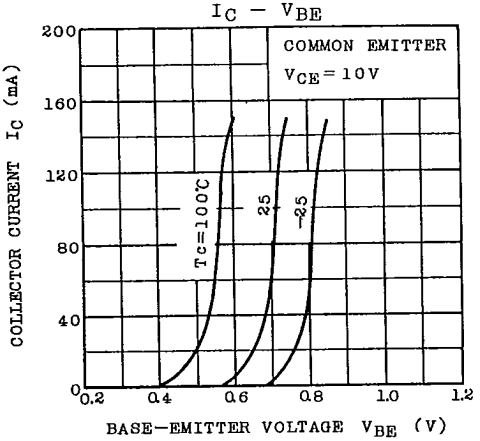
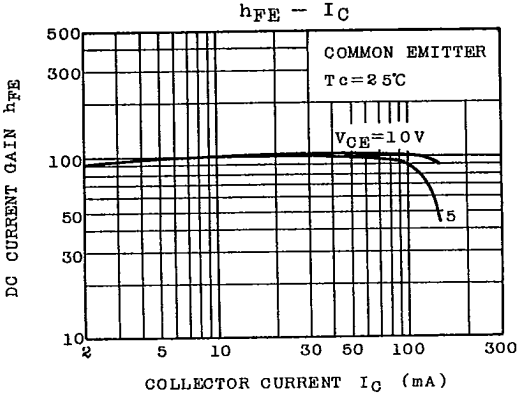
I_C - V_{CE}



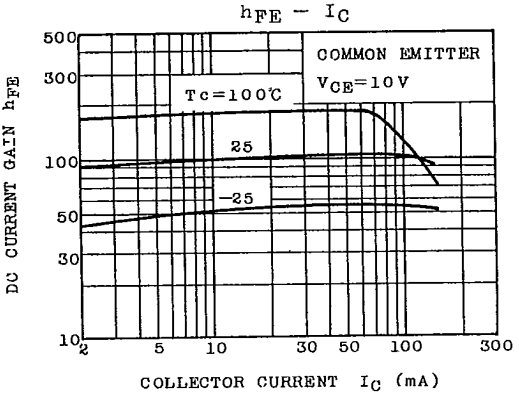
I_C — V_{BE}



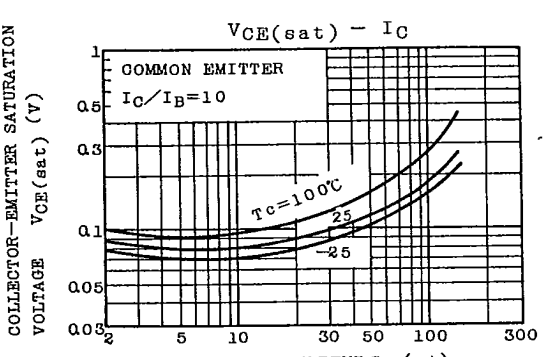
h_{FE} — I_C



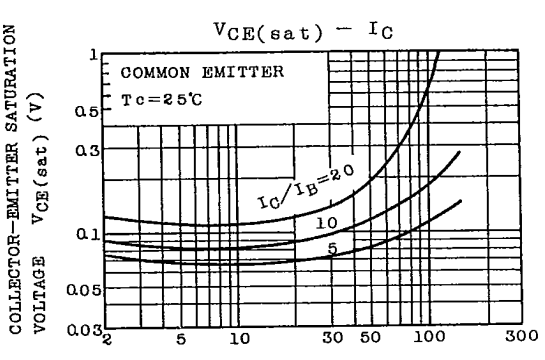
h_{FE} — I_C



$V_{CE(sat)}$ — I_C



$V_{CE(sat)}$ — I_C



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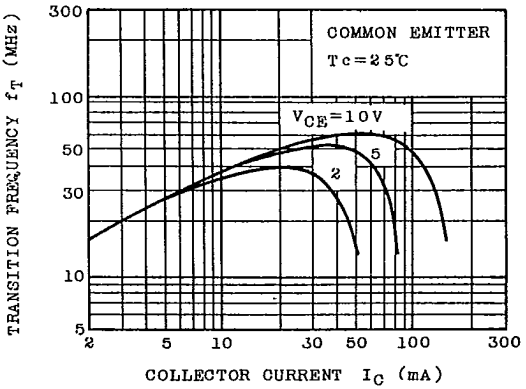
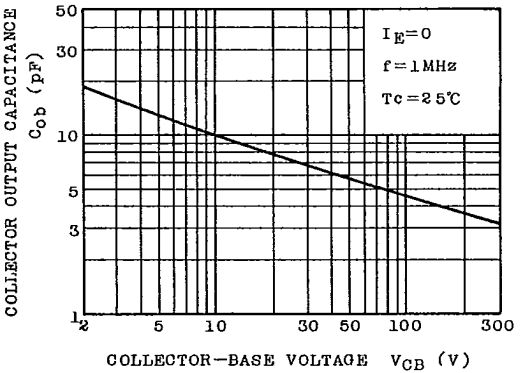
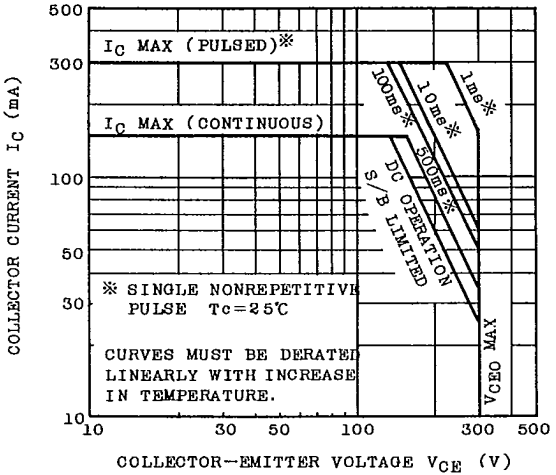
$f_T - I_E$



$C_{ob} - V_{CB}$



SAFE OPERATING AREA



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