AUDIO POWER AMPLIFIER APPLICATIONS.

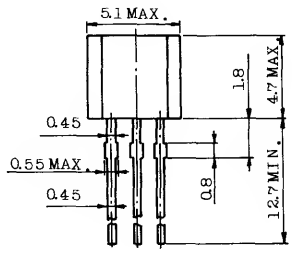
FEATURES:

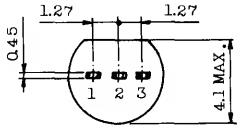
. High h_{FE} : h_{FE}=96 ~ 300

. 1 Watts Amplifier Applications

. Complementary to TEC9012

Unit in mm





1. EMITTER
2. BASE
3. COLLECTOR

JEDEC	TO-92
EIAJ	SC-43
TOSHIBA	2-5F1F

Weight : 0.21g

MAXIMUM RATINGS ($Ta=25^{o}C$)

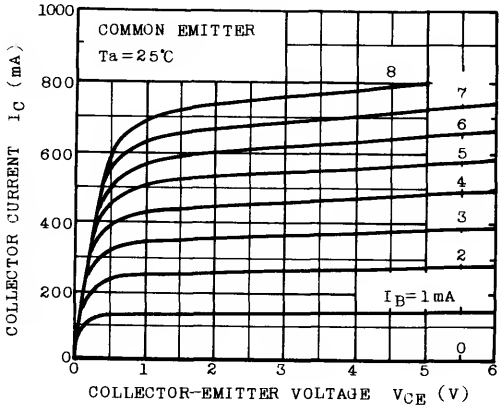
CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	30	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	800	mA
Base Current	I_B	-80	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_j	150	^{o}C
Storage Temperature Range	T_{stg}	-55 ~ 150	^{o}C

ELECTRICAL CHARACTERISTICS ($Ta=25^{o}C$)

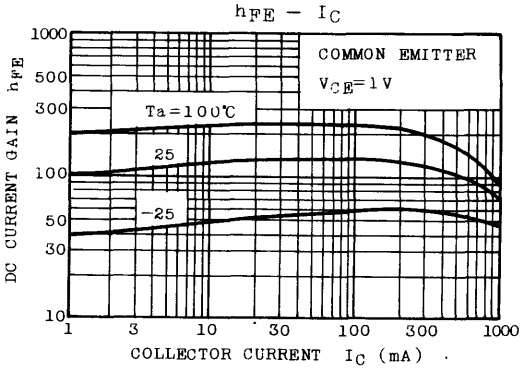
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=30V, I_E=0	-	-	100	nA
Emitter Cut-off Current	I_{EBO}	V_{EB}=5V, I_C=0	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=1mA	30	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	V_{CE}=1V, I_C=50mA	96	-	300	
	$h_{FE(2)}$	V_{CE}=1V, I_C=500mA	40	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=500mA, I_B=20mA	-	0.15	0.5	V
Base-Emitter Voltage	V_{BE}	V_{CE}=1V, I_C=50mA	0.6	-	0.75	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	I_C=500mA, I_B=20mA	-	0.91	1.20	V

Note : $h_{FE(1)}$ Classification F : 96 ~ 135, G : 118 ~ 166, H : 144 ~ 202,
I : 176 ~ 246, J : 214 ~ 300

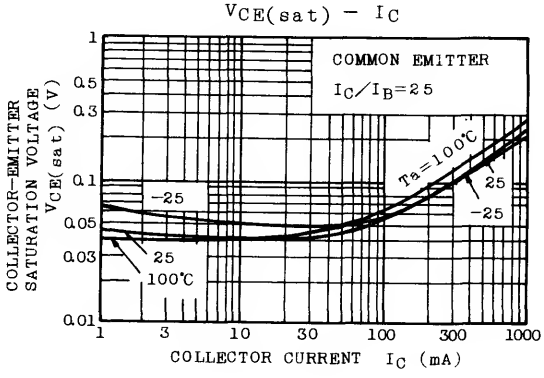
$I_C - V_{CE}$



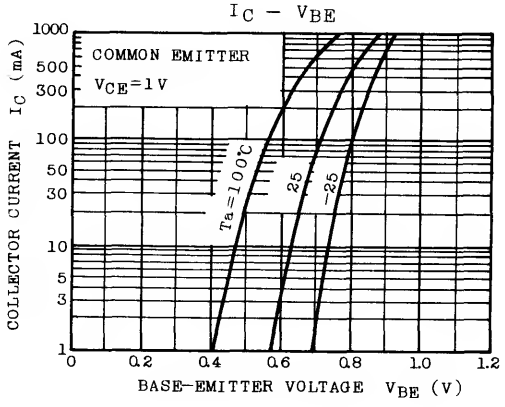
$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$I_C - V_{BE}$



$P_C - Ta$