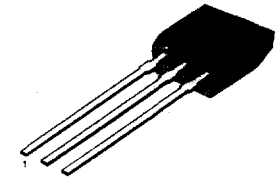
LOW FREQUENCY POWER AMPLIFIER

- Complement to KSC2710
- Collector Dissipation P_C = 300mW

TO-92S



1.Emitter 2. Collector 3. Base

ABSOLUTE MAXIMUM RATINGS (T_A=25℃)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-40	V
Collector-Emitter Voltage	V_{CEO}	-20	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current (DC)	I_C (DC)	-500	mA
*Collector Current (Pulse)	I_C(Pulse)	-700	mA
Collector Dissipation	P_C	300	mW
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55 ~ 150	℃

* PW ≤ 350ms, Duty cycle ≤ 50%

ELECTRICAL CHARACTERISTICS (T_A=25℃)

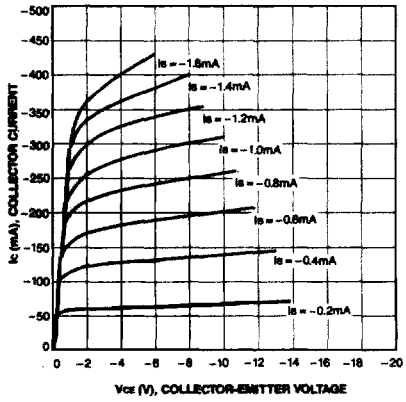
Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	I_C= -100μA, I_E=0	-40			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	I_C= -10mA, I_B=0	-20			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I_E= -100μA, I_C=0	-5			V
Collector Cut-off Current	I_{CBO}	V_{CB}= -25V, I_E=0			-100	nA
Emitter Cut-off Current	I_{EBO}	V_{EB}= -3V, I_C=0			-100	nA
*DC Current Gain	h_{FE}	V_{CE}= -1V, I_C= -100mA	40		400	
*Collector-Emitter Saturation Voltage	V_{CE}(sat)	I_C= -500mA, I_B= -50mA		-0.3	-0.4	V
*Base-Emitter Saturation Voltage	V_{BE} (sat)	I_C= -500mA, I_B= -50mA		-1.0	-1.3	V

* Pulse Test : PW ≤ 350μs, Duty cycle ≤ 2%

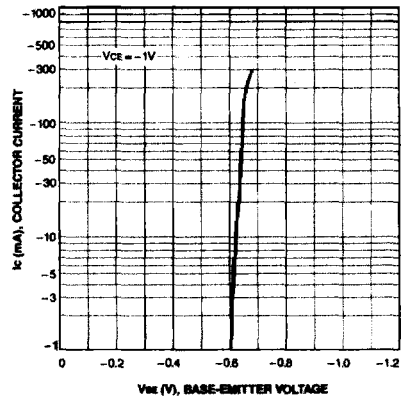
h_{FE} CLASSIFICATION

Classification	R	O	Y	G
h_{FE}	40-80	70-140	120-240	200-400

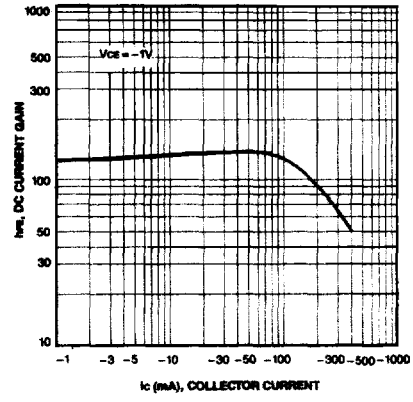
STATIC CHARACTERISTIC



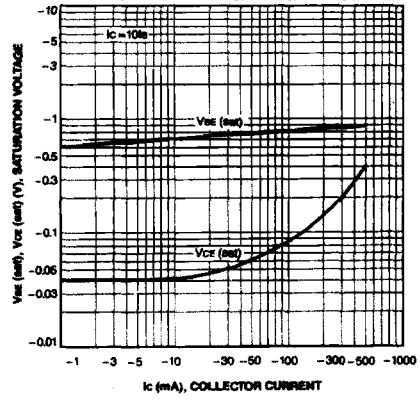
BASE-EMITTER ON VOLTAGE



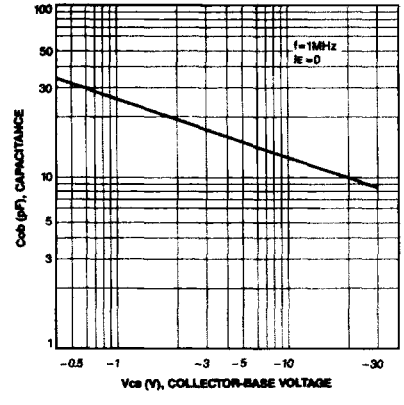
DC CURRENT GAIN



BASE-EMITTER SATURATION VOLTAGE
COLLECTOR-EMITTER SATURATION VOLTAGE



COLLECTOR OUTPUT CAPACITANCE



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