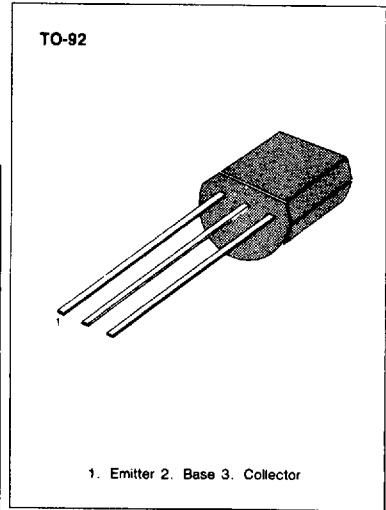


AMPLIFIER TRANSISTOR

- Collector-Emitter Voltage: V_{CE0} = KSP05: 60V
KSP06: 80V
- Collector Dissipation: P_C (max)=625mW

ABSOLUTE MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V_{CBO}	KSP05 60	V
		KSP06 80	V
Collector-Emitter Voltage	V_{CEO}	KSP05 60	V
		KSP06 80	V
Emitter-Base Voltage	V_{EBO}	4	V
Collector Current	I_C	500	mA
Collector Dissipation	P_C	625	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	- 55 ~ 150	$^\circ\text{C}$



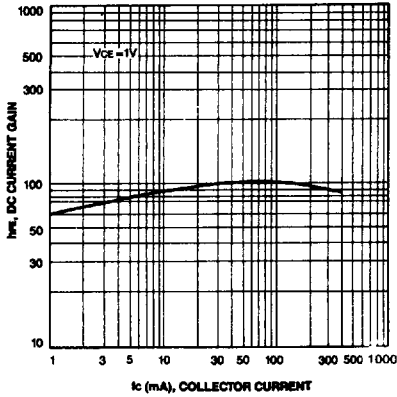
2

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

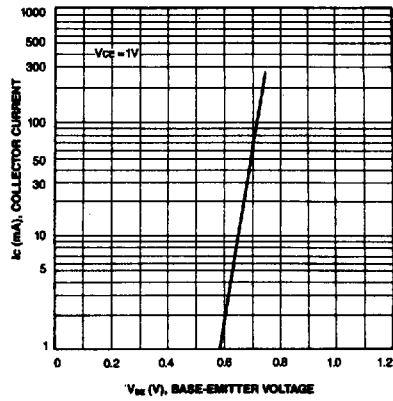
Characteristic	Symbol	Test Condition	Min	Max	Unit
*Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 1\text{mA}, I_B = 0$	60	80	V
KSP05					
KSP06					V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = 100\mu\text{A}, I_C = 0$	4		V
Collector Cut-off Current	I_{CBO}	$V_{CB} = 60\text{V}, I_E = 0$		0.1	μA
KSP05					
KSP06		$V_{CB} = 80\text{V}, I_E = 0$		0.1	μA
Collector Cut-off Current	I_{CEO}	$V_{CE} = 60\text{V}, I_B = 0\text{V}$		0.1	μA
DC Current Gain	h_{FE}	$V_{CE} = 1\text{V}, I_C = 10\text{mA}$	50		
		$V_{CE} = 1\text{V}, I_C = 100\text{mA}$	50		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 100\text{mA}, I_B = 10\text{mA}$		0.25	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = 1\text{V}, I_C = 100\text{mA}$		1.2	V
Current Gain Bandwidth Product	f_T	$V_{CE} = 2\text{V}, I_C = 10\text{mA}$ $f = 100\text{MHz}$	100		MHz

* Pulse Test: $PW = 300\mu\text{s}$, Duty Cycle = 2%

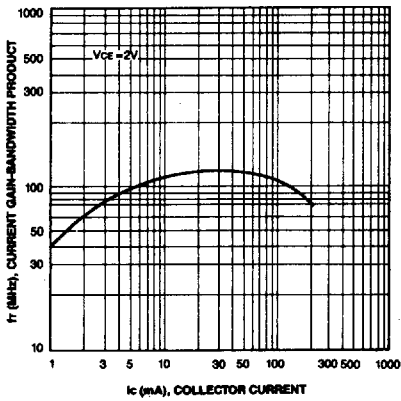
DC CURRENT GAIN



BASE-EMITTER ON VOLTAGE



CURRENT GAIN-BANDWIDTH PRODUCT



COLLECTOR-EMITTER SATURATION VOLTAGE
BASE-EMITTER SATURATION VOLTAGE

