Transistors 2SA708

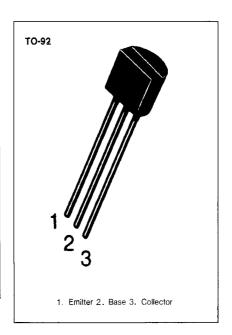


LOW FREQUENCY AMPLIFIER MEDIUM SPEED SWITCHING

- Collector-Base Voltage $V_{CBO} = -80V$
- Collector Dissipation P_c = 800mW

ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current Collector Dissipation	V _{CBO} V _{CEO} V _{EBO} I _C P _C	- 80 - 60 - 8 - 700 800	V V V mA mW
Junction Temperature Storage Temperature	Tj Tstg	150 -55~150	.c .c



ELECTRICAL CHARACTERISTICS (Ta=25°C)

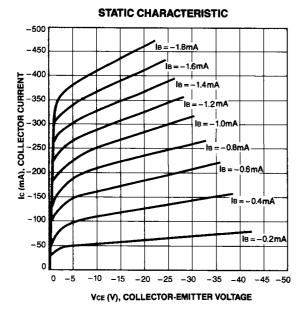
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	$I_{\rm C} = -100 \mu A, I_{\rm E} = 0$	- 80			٧
Collector-Emitter Breakdown Voltage	BV _{CEO}	$I_{C} = -10 \text{mA}, I_{B} = 0$	- 60			V
Emitter-Base Breakdown Voltage	BV _{EBO}	$I_E = -100 \mu A$, $I_C = 0$	-8			V
Collector Cut-off Current	I _{CBO}	$V_{CB} = -60V, I_E = 0$			-0.1	μA
Emitter Cut-off Current	I _{EBO}	$V_{EB} = -5V, I_{C} = 0$			-0.1	μA
DC Current Gain	h _{FE}	$V_{CE} = -2V, I_{C} = -50 \text{mA}^*$	40		240	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{\rm C} = -500 \text{mA}, I_{\rm B} - 50 \text{mA}^*$		-0.3	- 0.7	V
Base-Emitter Saturation Voltage	V _{BE} (sat)	$I_{\rm C} = -500 \text{mA}, I_{\rm C} = -50 \text{mA}$		-0.9	1.1	V
Current-Gain-Bandwidth Product	f _T	$V_{CE} = -10V, I_{C} = -50mA$		50	l I	MHz
Output Capacitance	Cob	$V_{CB} = -10V, I_E = 0$		13		pF
		f = 1MHz				

^{*} Pulse Test: PW ≤350μs, duty cycle ≤ 2%

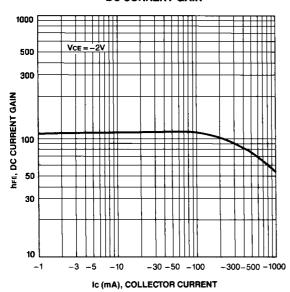
h_{FE} CLASSIFICATION

Classification	R	0	Y
h _{FE}	40-80	70-140	120-240

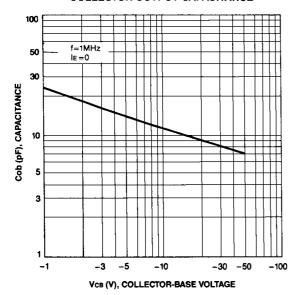




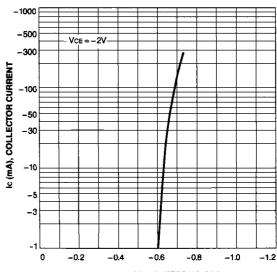




COLLECTOR OUTPUT CAPACITANCE

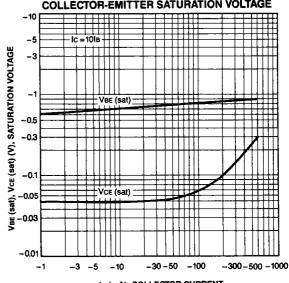


BASE-EMITTER ON VOLTAGE



VBE (V), BASE-EMITTER VOLTAGE

BASE-EMITTER SATURATION VOLTAGE COLLECTOR-EMITTER SATURATION VOLTAGE



ic (mA), COLLECTOR CURRENT

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