Transistors 2SA643



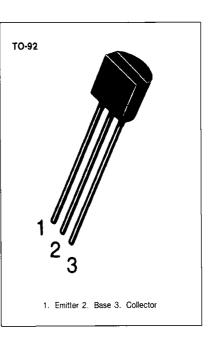
LOW FREQUENCY POWER AMPLIFIER

• Collector Dissipation Pc=500mW

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage Collector-Emitter Voltage Emitter-Base Voltage Collector Current (DC) Collector Current (pulse)* Collector Dissipaiton Junction Temperature	V _{СВО} V _{СЕО} V _{ЕВО} I _C (DC) I _C (pulse)* P _C Ti	- 40 - 20 - 5 - 500 - 700 500 150	V V mA mA mW ℃
Storage Temperature	Tstg	-55~150	°Č

* PW \leq 10mS, duty Cycle \leq 50%.



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BVCBO	$I_{\rm C} = -100 \mu A$, $I_{\rm E} = 0$	- 40			v
Collector-Emitter Breakdown Voltage	BVCEO	$I_{c} = -10 \text{mA}, I_{B} = 0$	- 20			v
Emitter-Base Breakdown Voltage	BVEBO	$l_{\rm E} = -100 \mu A$, $l_{\rm C} = 0$	- 5			v
Collector Cut-off Current	Ісво	$V_{CB} = -25V, I_{E} = 0$			- 200	nA
Emitter Cut-off Current	EBO	$V_{EB} = -3V, I_{C} = 0$			- 200	nA
DC Current Gain	hre	$V_{CE} = -1V, I_{C} = -100 \text{mA}^*$	40		400	
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{c} = -500 \text{mA}, I_{B} = -50 \text{mA}$		- 0.3	-0.4	l v
Base-Emitter Saturation Voltage	V _{BE} (sat)	$l_{\rm C} = -500 {\rm mA}, l_{\rm B} = -50 {\rm mA}^*$		- 1.0	- 1.3	v

* Pulse Test: PW = $350\mu s$, duty cycle = 2%

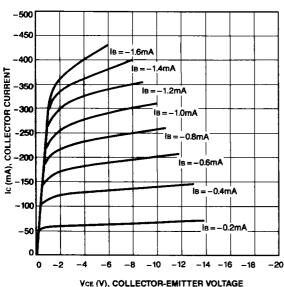
hFE CLASSIFICATION

Classification	R	0	Y	G
h _{FE}	40-80	70-140	120-240	200-400

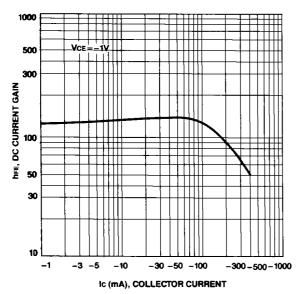


STATIC CHARACTERISTIC

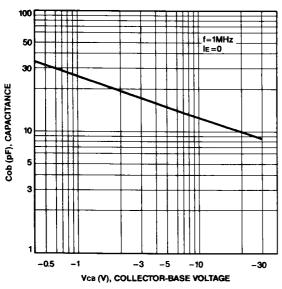
BASE-EMITTER ON VOLTAGE

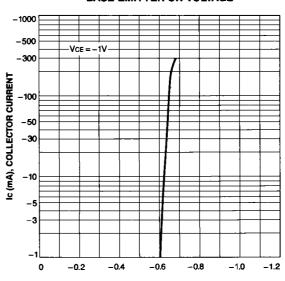


DC CURRENT GAIN



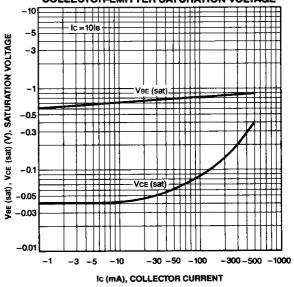






VBE (V), BASE-EMITTER VOLTAGE





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