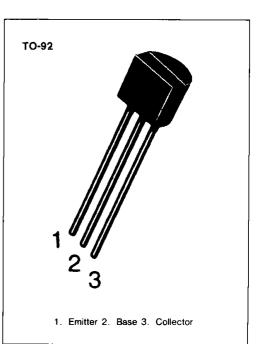
Transistors 2SC9014

PRE-AMPLIFIER, LOW LEVEL & LOW NOISE

- High total power dissipation. (PT=450mW)
- •High hre and good linearity
- Complementary to SS9015

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	50	v
Collector-Emitter Voltage	VCEO	45	v
Emitter-Base Voltage	VEBO	5	v
Collector Current	lc	100	mA
Collector Dissipation	Pc	450	mW
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~150	°C



ELECTRICAL CHARACTERISTICS $(T_a = 25 °C)$

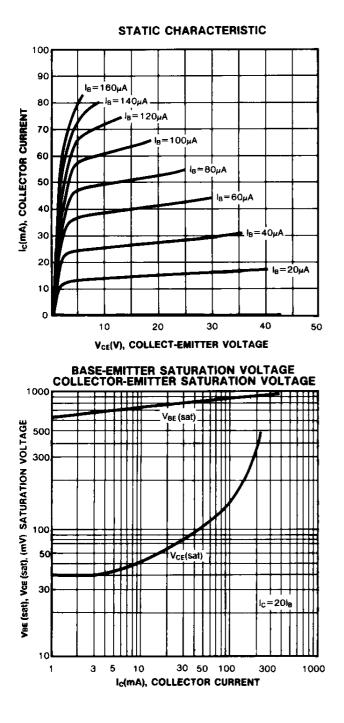
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BV _{CBO}	I _c =100μA, I _E =0	50			v
Collector-Emitter Breakdown Voltage	BVCEO	$l_c=1$ mA, $l_B=0$	45			V V
Emitter-Base Breakdown Voltage	BVEBO	$I_{\rm E} = 100 \mu A$, $I_{\rm C} = 0$	5			v
Collector Cutoff Current	I _{CBO}	$V_{CB}=50V, I_E=0$			50	nA
Emitter Cutoff Current	I _{EBO}	$V_{EB}=5V, I_{C}=0$			50	nA
DC Current Gain	h _{FE}	$V_{CE} = 5V$, $I_C = 1mA$	60	280	1000	
Collector-Base Saturation Voltage	V _{CE} (sat)	$I_{c} = 100 \text{mA}$. $I_{B} = 5 \text{mA}$		0.14	0.3	V
Base-Emitter Saturation Voltage	V _{BE} (sat)	$I_{c} = 100 \text{mA}, I_{B} = 5 \text{mA}$		0.84	1.0	V V
Base-Emitter On Voltage	V _{BE} (on)	$V_{CE}=5V, I_{C}=2mA$	0.58	0.63	0.7	v
Output Capacitance	Cob	V_{CB} =10V, I_E =0 f=1MHz		2.2	3.5	pF
Current Gain-Bandwidth Product	f _T	$V_{CE} = 5V$, $I_C = 10mA$	150	270		MHz
Noise Figure	NF	$V_{CE}=5V$, $I_C=0.2mA$ f=1KHz, Rs=2K Ω		0.9	10	dB

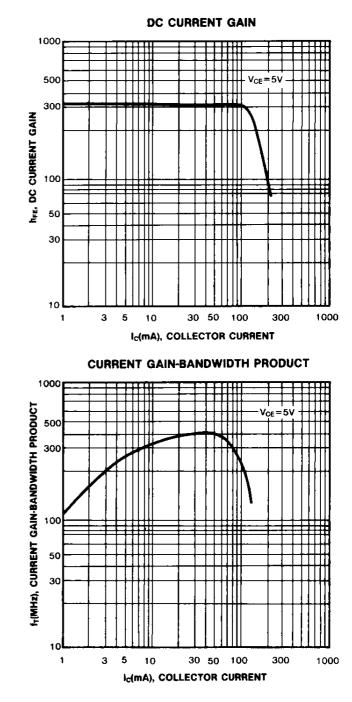
hfe CLASSIFICATION

Classification	A	В	С	D
h _{FE}	60-150	100-300	200-600	400-1000









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