Transistors 2SC9016

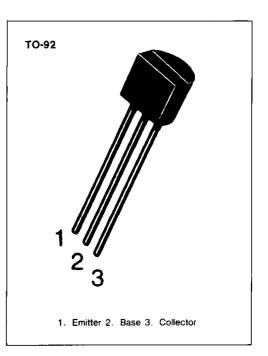


AM CONVERTER, FM/RF AMPLIFIER OF LOW NOISE.

• High total power dissipation. (PT=400mW)

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

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	30	v
Collector-Emitter Voltage	VCEO	20	v
Emitter-Base Voltage	V _{EBO}	4	v
Collector Current		25	mA
Collector Dissipation	Pc	400	mW
Junction Temperature	Ti	150	°C
Storage Temperature	Tstg	-55~150	°C



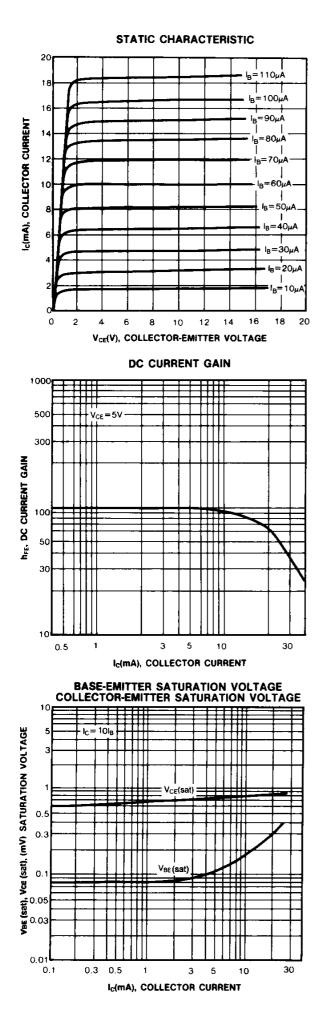
ELECTRICAL CHARACTERISTICS ($T_a = 25^{\circ}C$)

Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage	BVCBO	l _c =100μA, l _E =0	30			v
Collector-Emitter Breakdown Voltage	BV CEO	$I_{\rm C} = 1 {\rm mA}, \ I_{\rm B} = 0$	20			v
Emitter-Base Breakdown Voltage	BVEBO	$I_{\rm E} = 100 \mu A$, $I_{\rm C} = 0$	4			v
Collector Cutoff Current	I _{CBO}	$V_{CB} = 30V, I_E = 0$			100	nA
Emitter Cutoff Current	I _{EBO}	$V_{EB}=3V, I_{C}=0$			100	nA
DC Current Gain	h _{FE}	$V_{CE} = 5V, I_C = 1mA$	28	90	198	ļ
Collector-Emitter Saturation Voltage	V _{CE} (sat)	$I_{\rm C} = 10 {\rm mA}, I_{\rm B} = 1 {\rm mA}$		0.1	0.3	v
Base-Emitter On Voltage	V _{BE} (on)	$V_{CE} = 5V$, $I_C = 1mA$		0.72		v
Output Capacitance	Cob	$V_{CB} = 10V, I_E = 0$ f = 1MHz		1.2	1.6	pF
Current Gain-Bandwidth Product	f _T	$V_{CE} = 5V$, $I_C = 1mA$	400	620		MHz
Noise Figure	NF	$V_{CE} = 5V, I_C = 1.0 \text{mA}$ f = 100MHz, Rs = 50 Ω		3.0	5.0	dB

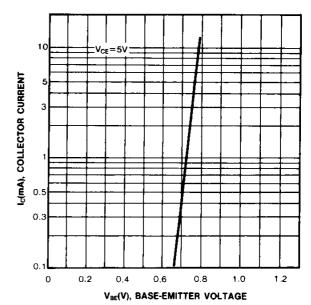
hfe CLASSIFICATION

Classification	D	E	F	G	н	ł
h _{FE}	28-45	39-60	54-80	72-108	97-146	132-198

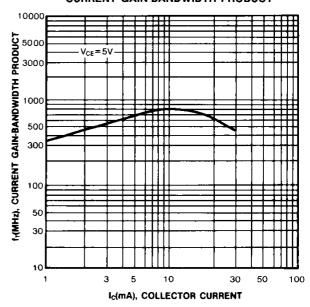




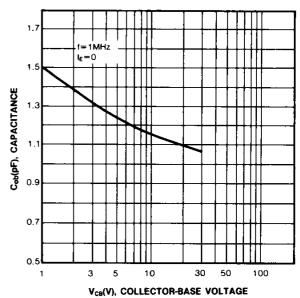
BASE-EMITTER ON VOLTAGE



CURRENT GAIN-BANDWIDTH PRODUCT



COLLECTOR OUTPUT CAPACITANCE



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