

TO-92 Plastic-Encapsulate Transistors

D1616AGC929

NPN Transistors

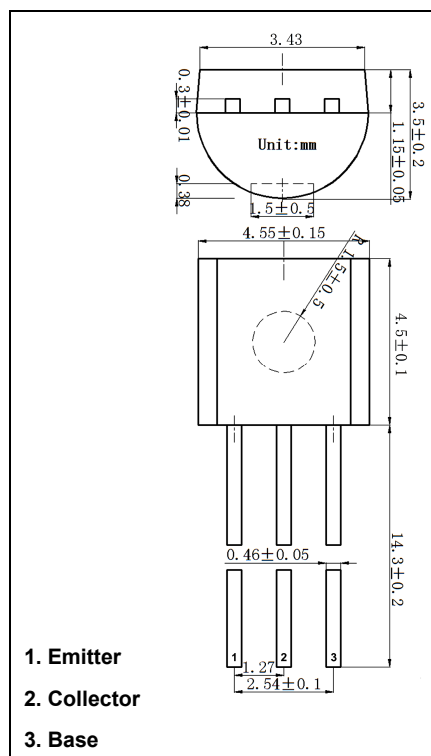
Features

- Power dissipation

Marking: D1616AGC929

Maximum Ratings (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector Base Voltage	120	V
V _{CEO}	Collector Emitter Voltage	60	V
V _{EBO}	Emitter Base Voltage	6	V
I _c	Collector Current	1	A
P _c	Collector Power Dissipation	750	mW
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 ~ +150	°C
R _{θJA}	Thermal Resistance from Junction to Ambient	167	°C/W



Electrical Characteristics (T_a=25°C unless otherwise specified)

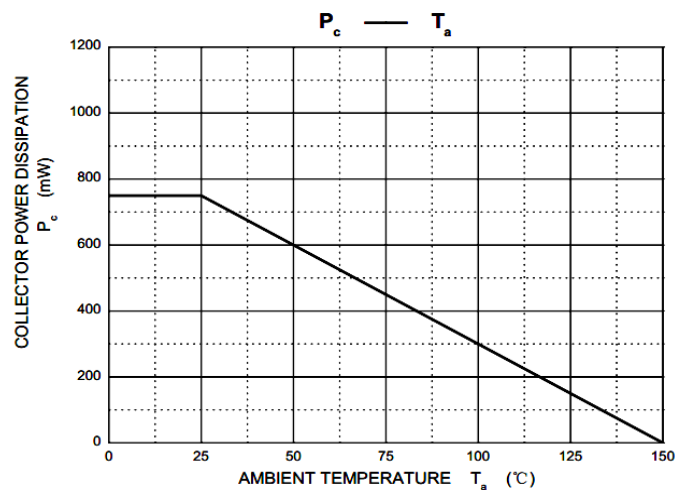
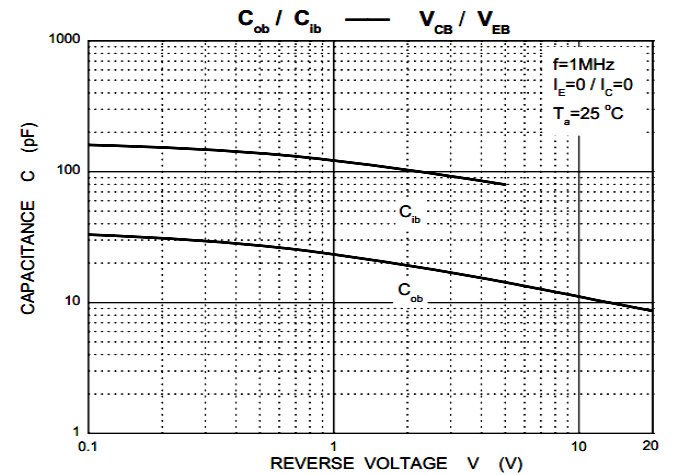
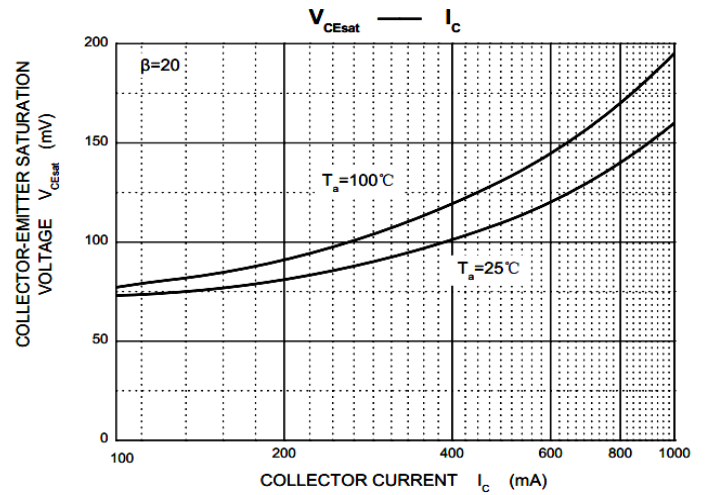
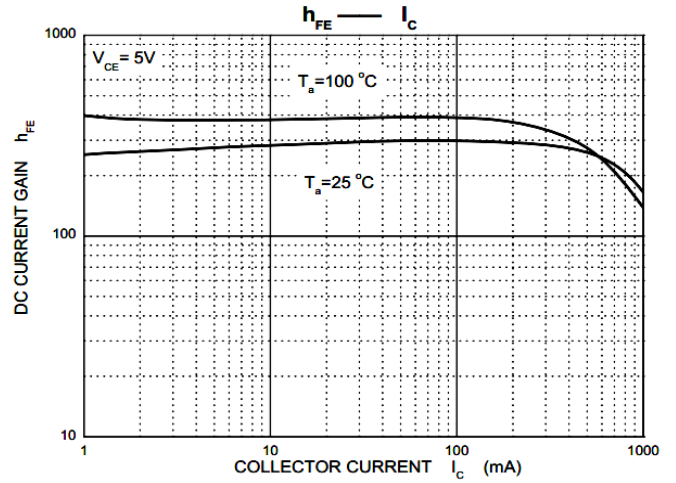
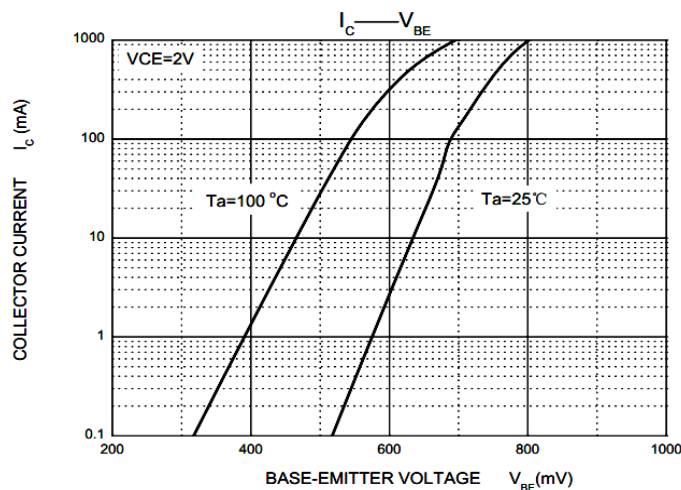
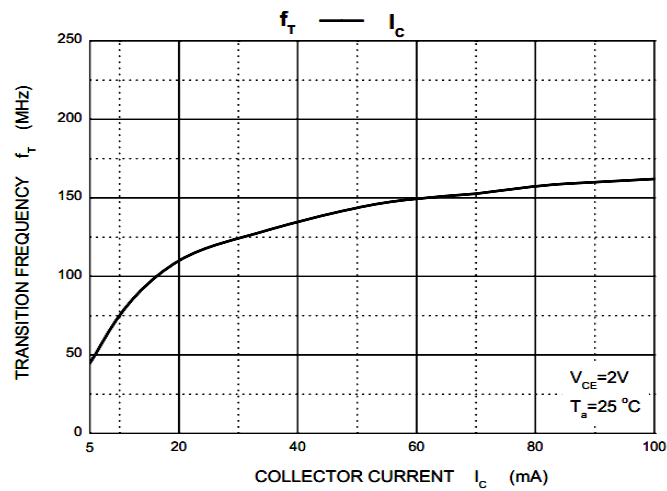
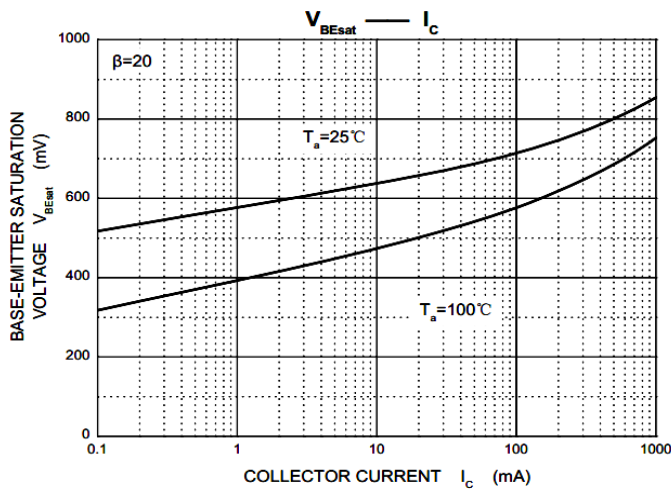
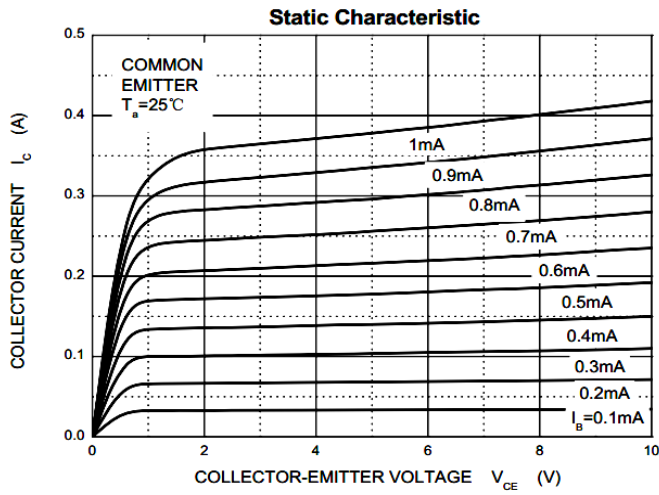
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _c = 10μA, I _E = 0	120			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _c = 2mA, I _B = 0	60			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E = 10μA, I _C = 0	6			V
I _{CBO}	Collector cut-off current	V _{CB} = 60V, I _E = 0			100	nA
I _{EBO}	Emitter cut-off current	V _{EB} = 6V, I _C = 0			100	nA
h _{FE(1)}	DC current gain	V _{CE} = 2V, I _C = 100mA	135		600	
h _{FE(3)}		V _{CE} = 2V, I _C = 1A	81			
V _{CE(sat)}	Collector-emitter saturation voltage*	I _C = 1A, I _B = 50mA			0.3	V
V _{BE(sat)}	Base-emitter saturation voltage*	I _C = 1A, I _B = 50mA			1.2	V
V _{BE}	Base-emitter voltage*	V _{CE} = 2V, I _C = 50mA	0.6		0.7	V
f _T	Transition frequency	V _{CE} = 2V, I _C = 100mA	100			MHz
C _{ob}	Output capacitance	V _{CB} = 10V, I _E = 0, f = 1MHz			19	pF
t _{on}	Turn time	V _{CC} = 10V, I _C = 100mA, I _{B1} = -I _{B2} = 10mA		0.07		μs
t _s	Storage time			0.95		μs
t _f	Fall time			0.07		μs

*pulse test: PW≤350μS, δ≤2%.

Classification OF h_{FE(1)}

Rank	L	K	U
Range	135-270	200-400	300-600

Typical Characteristics



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