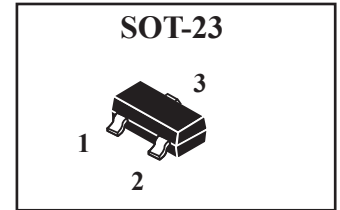
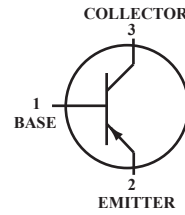


PNP Transistor Surface Mount

(Pb) Lead(Pb)-Free

FEATURES:

- * Suitable for AF-Driver stages and low power output stages
- * Complement to BC818



Maximum Ratings

Rating	Symbol	Value	Unit
Collector-Emitter Voltage	V _{CEO}	-25	V
Collector-Base Voltage	V _{CBO}	-30	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current-Continuous	I _C	-0.8	A

Thermal Characteristics

Characteristics	Symbol	Max	Unit
Maximum Power Dissipation Total Power Dissipation (T _a =25°C)	P _D	300	mW
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-65 -150	°C

Electrical Characteristics (T_A=25°C Unless Otherwise noted)

Characteristics	Symbol	Min	Max	Unit
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Off Characteristics

Collector-Emitter Breakdown Voltage (I _C =-10mA, I _B =0)	V(BR)CEO	-25	-	V
Collector-Base Breakdown Voltage (I _C =-100μA, I _E =0)	V(BR)CBO	-30	-	V
Emitter-Base Breakdown Voltage (I _E =-100 μA, I _C =0)	V(BR)EBO	-5	-	V
Collect Cut-off Current (V _{CB} = -25V, I _E =0)	I _{CBO}	-	-0.1	μA
Emitte Cut-off Current (V _{EB} =-4V, I _C =0)	I _{EBO}	-	-0.1	μA

Electrical Characteristics (T_A=25°C unless otherwise noted) (Continued)

Characteristics	Symbol	MIN	TYP	MAX	UNIT
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On Characteristics

DC Current Gain (V _{CE} =-1V, I _C = -100mA) (V _{CE} =-1V, I _C = -300mA)	h _{FE(1)}	100	-	630	-
	h _{FE(2)}	60	-	-	-
Collector-Emitter Saturation Voltage (I _C = -500mA, I _B = -50mA)	V _{CE(sat)}	-	-	0.7	V
Base-Emitter Voltage (V _{CE} =-1V, I _C = -300mA)	V _{BE}	-	-	-1.2	V
Transition frequency (V _{CE} = -5V, I _C =-10mA, f=50MHz)	f _T	-	100	-	MHz
Collector output Capacitance (V _{CB} = -10 V, I _E =0, f=1 MHz)	C _{ob}	-	12	-	pF

CLASSIFICATION OF h_{FE}

Rank	16	25	40
Range h _{FT(1)}	100-250	160-400	250-630
Marking	5E	5F	5G

Characteristics Curve

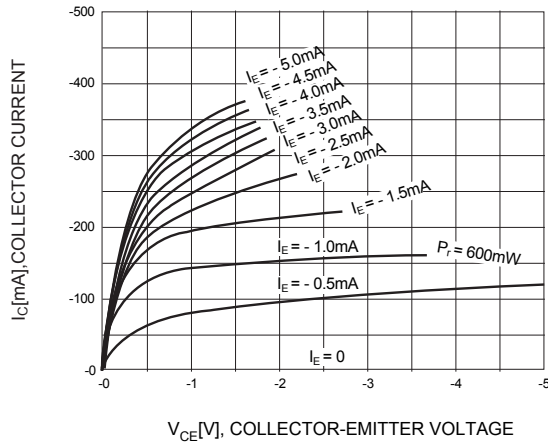


Figure 1. Static Characteristic

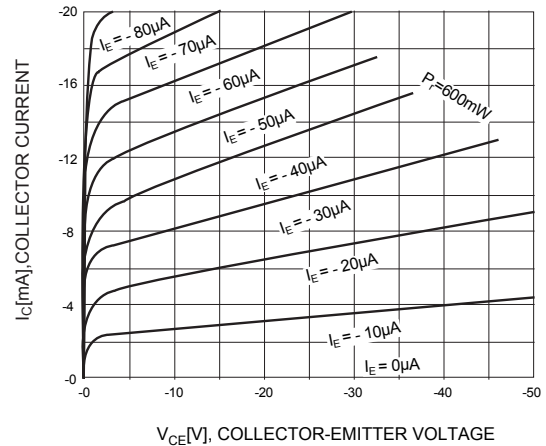


Figure 2. Static Characteristic

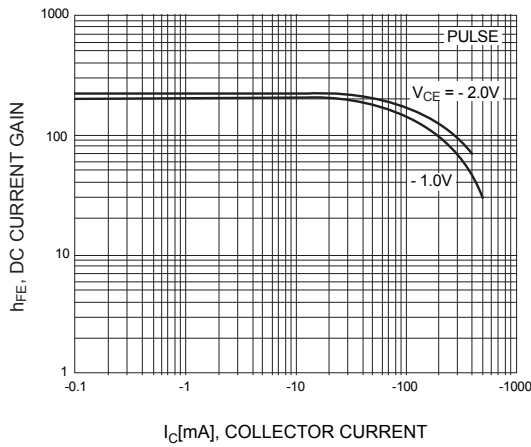


Figure 3. DC current Gain

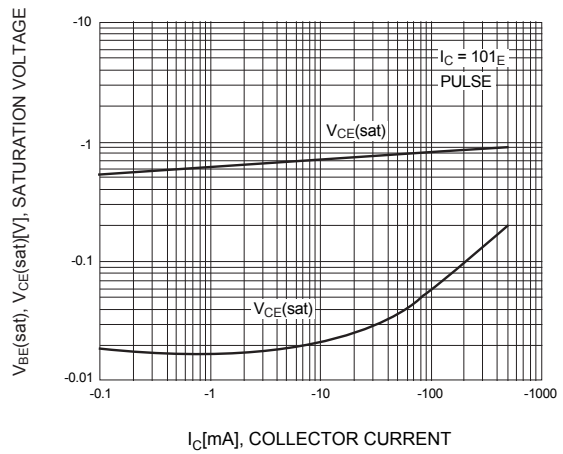


Figure 4. Base-Emitter Saturation Voltage
Collector-Emitter Saturation Voltage

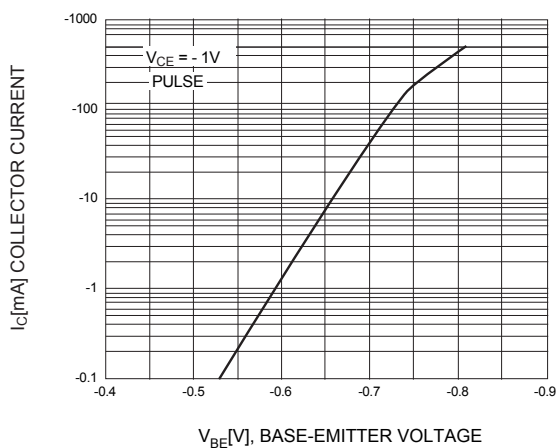


Figure 5. Base-Emitter On Voltage

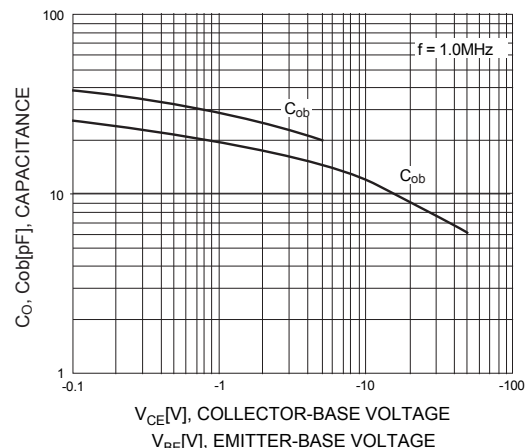


Figure 6. Input Output Capacitance

Characteristics Curve

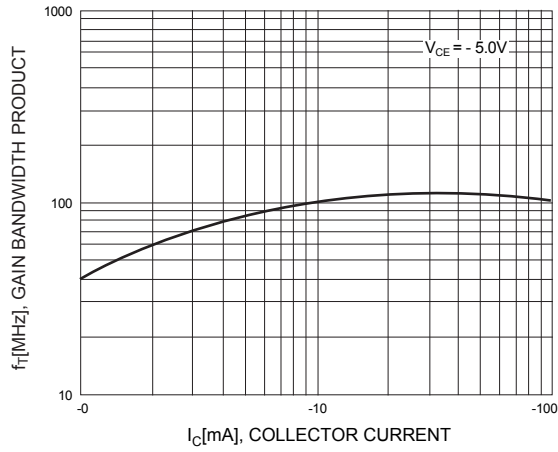


Figure 7. Current Gain Bandwidth Product