



2SC4617

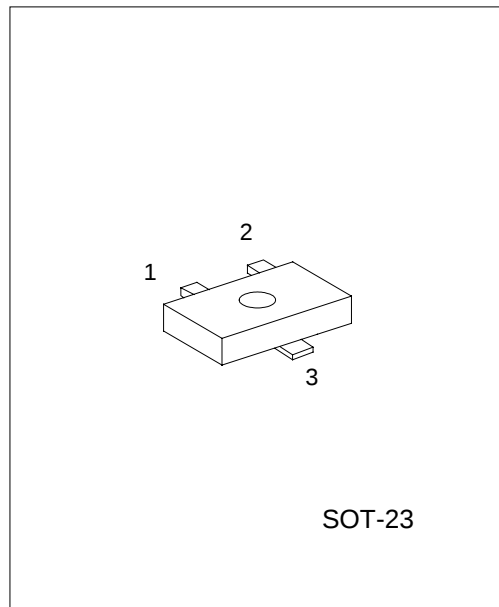
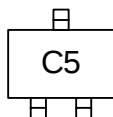
NPN EPITAXIAL SILICON TRANSISTOR

GENERAL PURPOSE TRANSISTOR

■ FEATURES

- * Low Cob
Cob=2.0pF (typ)
- * Complements the UTC 2SA1774

■ MARKING



*Pb-free plating product number: 2SC4617L

■ PIN CONFIGURATION

PIN NO.	PIN NAME
1	Emitter
2	Base
3	Collector

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead free		
2SC4617-AE3-R	2SC4617L-AE3-R	SOT-23	Tape Reel

■ ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector -Base Voltage	V _{CBO}	60	V
Collector -Emitter Voltage	V _{CEO}	50	V
Emitter -Base Voltage	V _{EBO}	7	V
DC Collector Current	I _C	150	mA
Power Dissipation	P _D	150	mW
Operating Temperature	T _J	+150	°C
Storage Temperature	T _{STG}	-40 ~ +150	°C

■ ELECTRICAL CHARACTERISTICS (Ta= 25°C, unless otherwise specified)

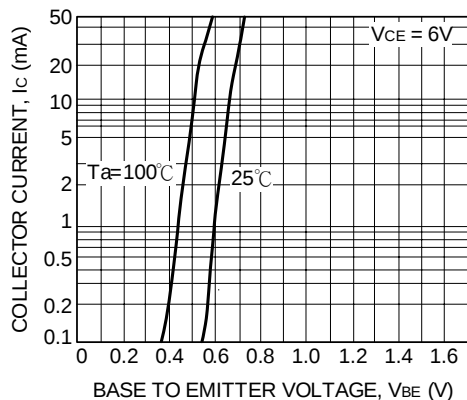
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV _{CBO}	I _C = 50 μ A	60			V
Collector Emitter Breakdown Voltage	BV _{CEO}	I _C = 1mA	50			V
Emitter-base Breakdown Voltage	BV _{EBO}	I _E =50 μ A	7			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =60V			0.1	μ A
Emitter Cut-Off Current	I _{EBO}	V _{EB} = 7V			0.1	μ A
DC Current Transfer Ratio	h _{FE}	V _{CE} =6V, I _C =1mA	120		560	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =50mA, I _B =5mA			0.4	V
Transition Frequency	f _T	V _{CE} =12V, I _E = -2mA, f=100MHz		180		MHz
Output Capacitance	C _{ob}	V _{CE} = 12V, I _E = 0A, f=1MHz		2	3.5	pF

■ CLASSIFICATION OF hFE

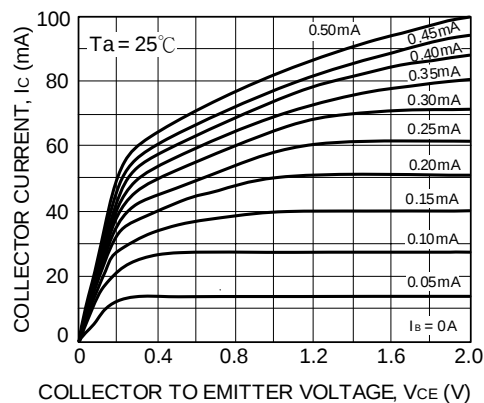
RANK	Q	R	S
RANGE	120 ~ 270	180 ~ 390	270 ~ 560

■ TYPICAL CHARACTERISTICS

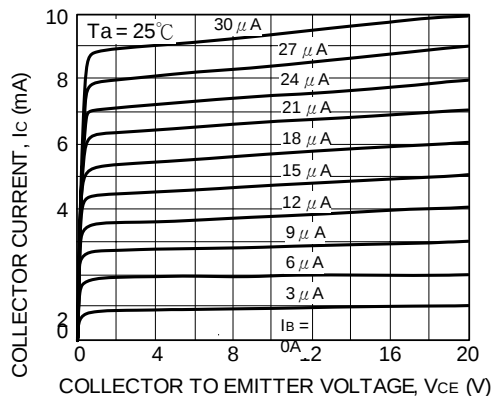
Grounded emitter propagation characteristics



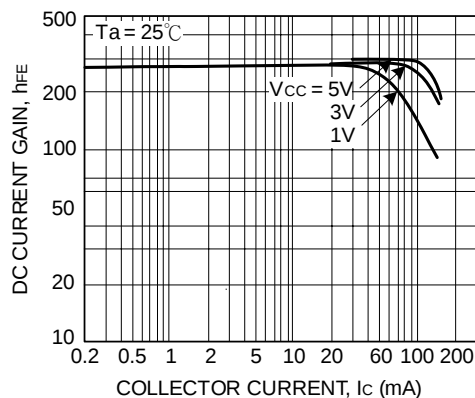
Grounded emitter output characteristics (I)



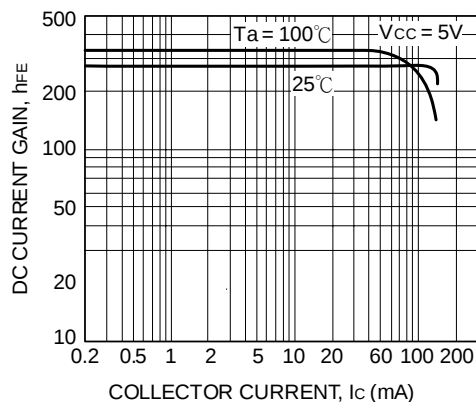
Grounded emitter output characteristics (C)



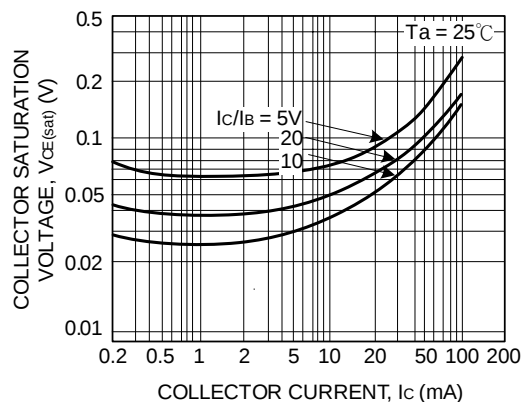
DC current gain vs. collector current (I)



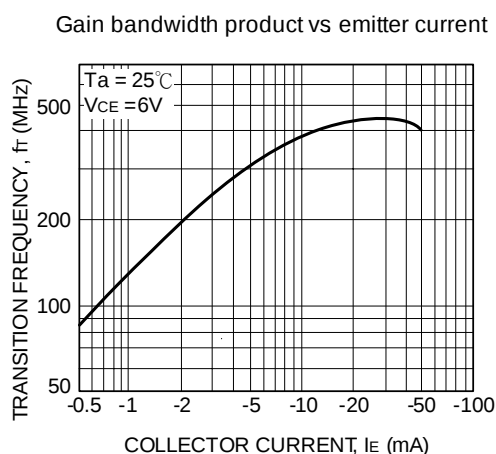
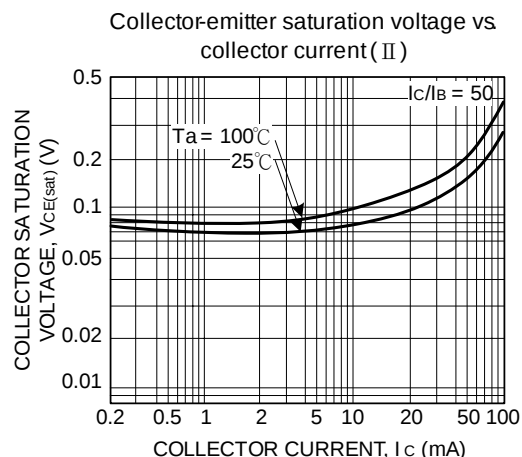
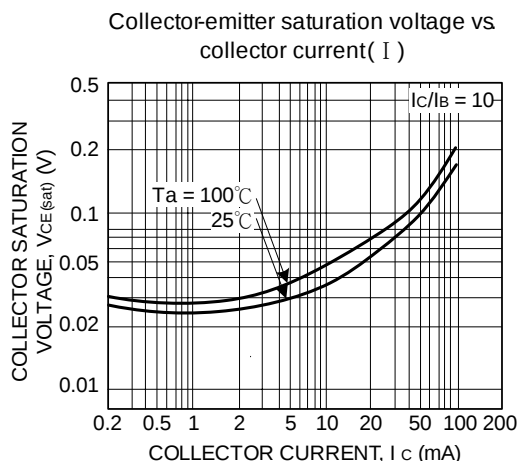
DC current gain vs. collector current (II)



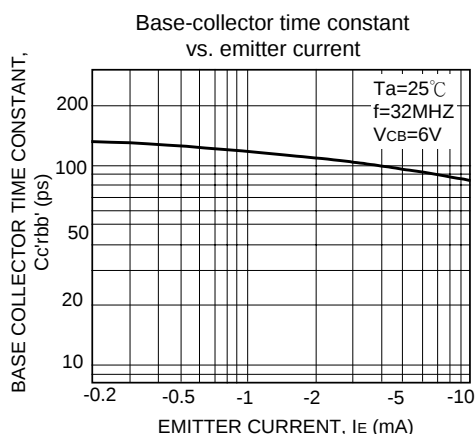
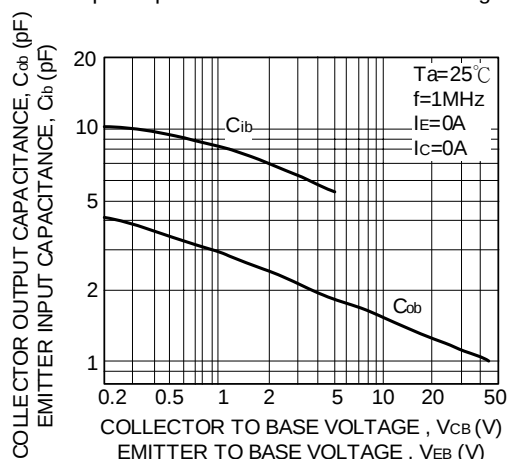
Collector-emitter saturation voltage vs collector current



■ TYPICAL CHARACTERISTICS(cont.)



Collector output capacitance vs collector-base voltage
Emitter input capacitance vs emitter-base voltage



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