



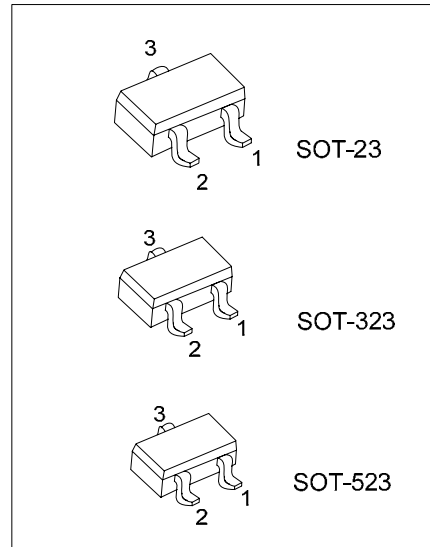
2SC4617

NPN SILICON TRANSISTOR

GENERAL PURPOSE TRANSISTOR

FEATURES

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



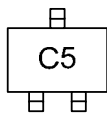
*Pb-free plating product number:2SC4617L

ORDERING INFORMATION

Ordering Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
2SC4617-AE3-R	2SC4617L-AE3-R	SOT-23	E	B	C	Tape Reel
2SC4617-AL3-R	2SC4617L-AL3-R	SOT-323	E	B	C	Tape Reel
2SC4617-AN3-R	2SC4617L-AN3-R	SOT-523	E	B	C	Tape Reel

<p>2SC4617L-AE3-R</p> <p>(1)Packing Type (2)Package Type (3)Lead Plating</p>	<p>(1) R: Tape Reel (2) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523 (3) L: Lead Free Plating, Blank: Pb/Sn</p>
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MARKING



■ 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
Collector Current		I_C	0.15	A
Collector Power Dissipation	SOT-523	P_C	150	mW
	SOT-23/SOT-323	P_C	200	mW
Junction Temperature		T_J	+150	
Storage Temperature		T_{STG}	-55 ~ +150	

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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

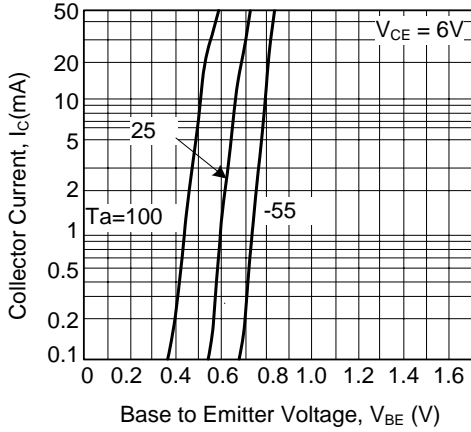
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV_{CBO}	$I_C = 50\mu A$	60			V
Collector Emitter Breakdown Voltage	BV_{CEO}	$I_C = 1mA$	50			V
Emitter-base Breakdown Voltage	BV_{EBO}	$I_E = 50\mu A$	7			V
Collector Cut-Off Current	I_{CBO}	$V_{CB} = 60V$			0.1	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB} = 7V$			0.1	μA
DC Current Gain	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 h_{FE}

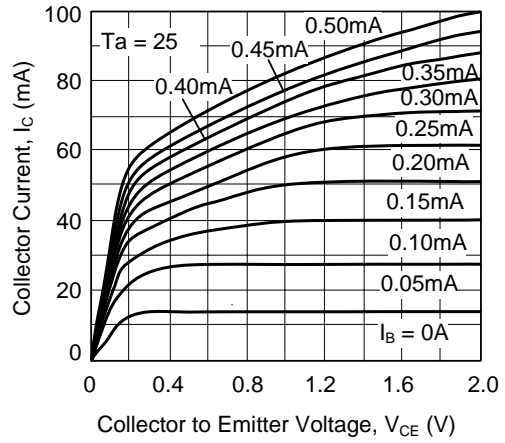
RANK	Q	R	S
RANGE	120 ~ 270	180 ~ 390	270 ~ 560

TYPICAL CHARACTERISTICS

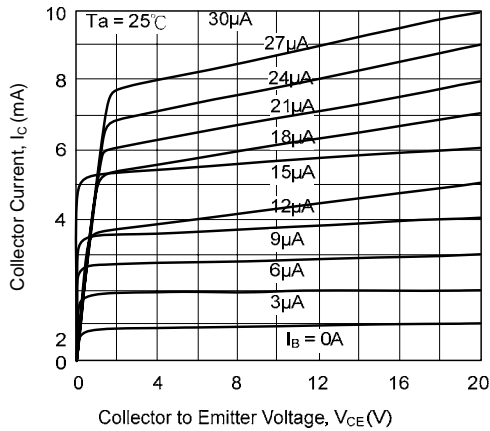
Grounded Emitter Propagation Characteristics



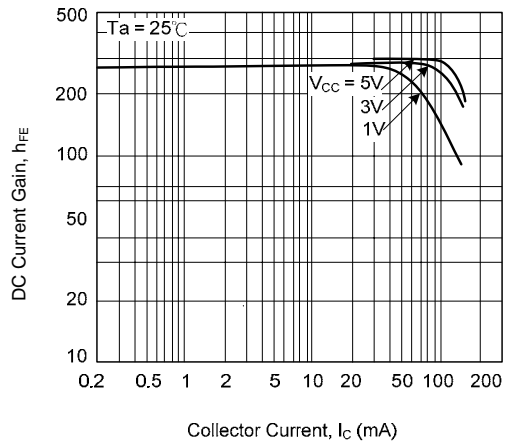
Grounded Emitter Output Characteristics (I)



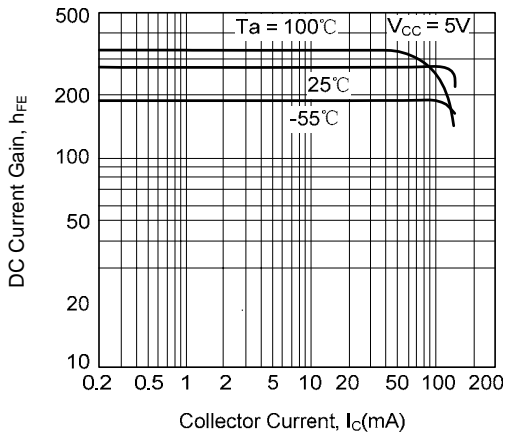
Grounded Emitter Output Characteristics (II)



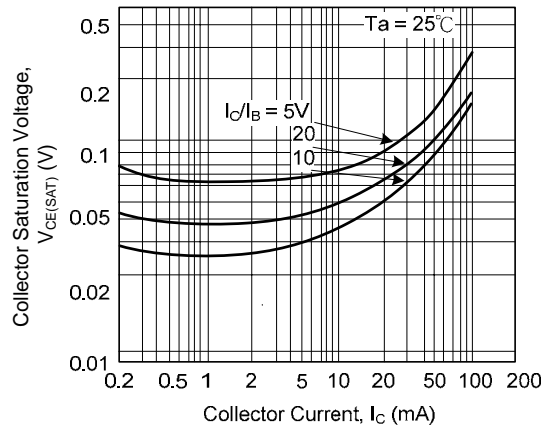
DC Current Gain vs. Collector Current (I)



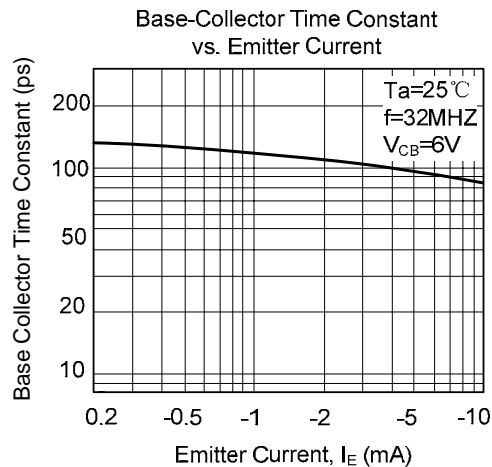
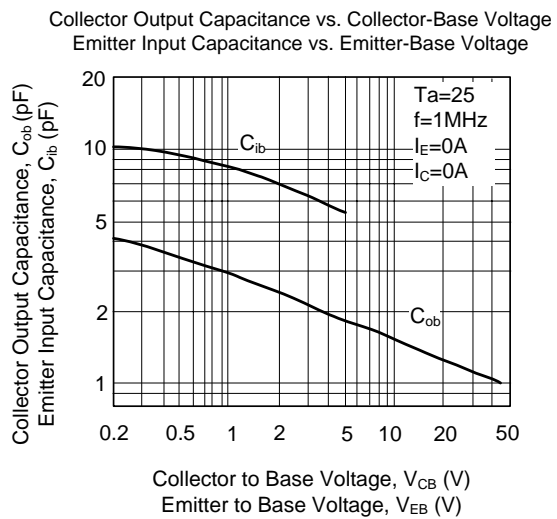
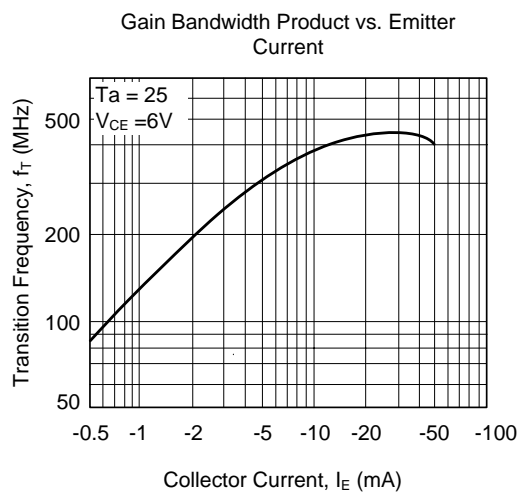
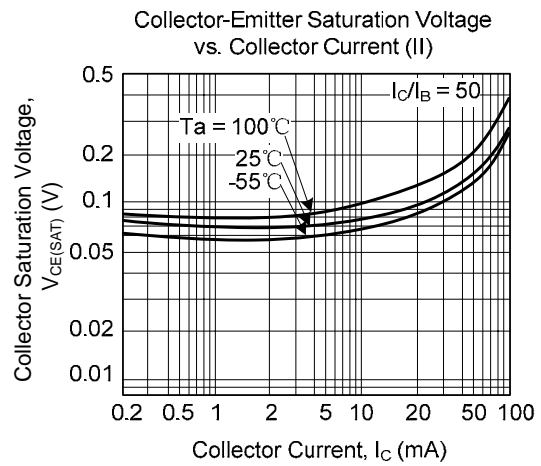
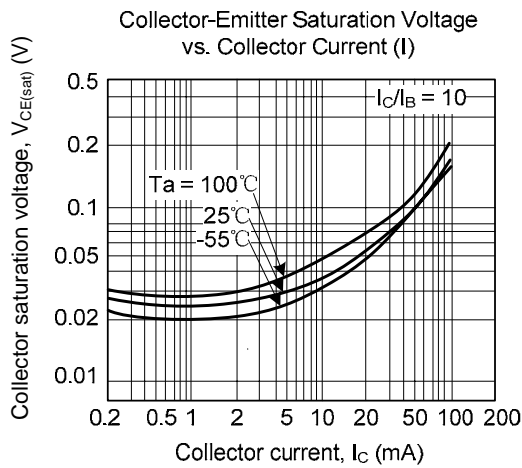
DC Current Gain vs. Collector Current (II)



Collector-Emitter Saturation Voltage vs. Collector Current



TYPICAL CHARACTERISTICS



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