



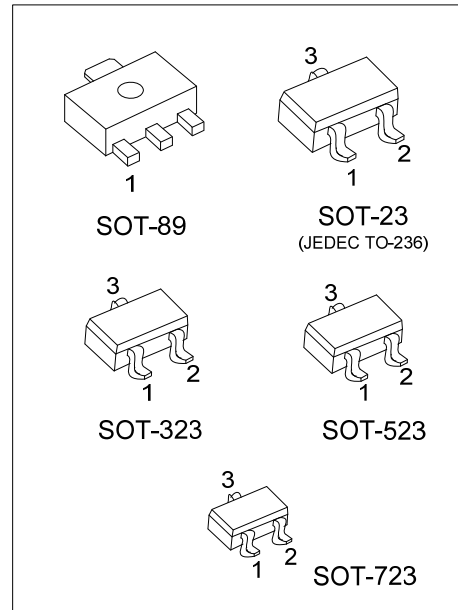
# 2SC4617

## NPN SILICON TRANSISTOR

### GENERAL PURPOSE TRANSISTOR

■ **FEATURES**

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



■ **ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC4617L-x-AB3-R	2SC4617G-x-AB3-R	SOT-89	B	C	E	Tape Reel
2SC4617L-x-AE3-R	2SC4617G-x-AE3-R	SOT-23	B	E	C	Tape Reel
2SC4617L-x-AL3-R	2SC4617G-x-AL3-R	SOT-323	B	E	C	Tape Reel
2SC4617L-x-AN3-R	2SC4617G-x-AN3-R	SOT-523	B	E	C	Tape Reel
2SC4617L-x-AQ3-R	2SC4617G-x-AQ3-R	SOT-723	B	E	C	Tape Reel

Note: Pin assignment: B: Base    C: Collector    E: Emitter

<p>2SC4617G-x-AB3-R</p> <p>(1) Packing Type (2) Package Type (3) Rank (4) Green Package</p>	<p>(1) R: Tape Reel (2) AB3: SOT-89, AE3: SOT-23, AL3: SOT-323, AN3: SOT-523, AQ3: SOT-723 (3) Refer to CLASSIFICATION OF <math>h_{FE}</math> (4) G: Halogen Free and Lead Free, L: Lead Free</p>
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■ **MARKING**

SOT-89	SOT-23 / SOT-323 / SOT-523 / SOT-723
<p>→ Date Code → L: Lead Free → G: Halogen Free</p>	<p>→ L: Lead Free → G: Halogen Free</p>

■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ , unless otherwise specified)

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-89	$P_C$	500	mW
	SOT-523		150	mW
	SOT-23/SOT-323		200	mW
	SOT-723		125	mW
Junction Temperature		$T_J$	+150	$^\circ\text{C}$
Storage Temperature		$T_{STG}$	-55 ~ +150	$^\circ\text{C}$

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.

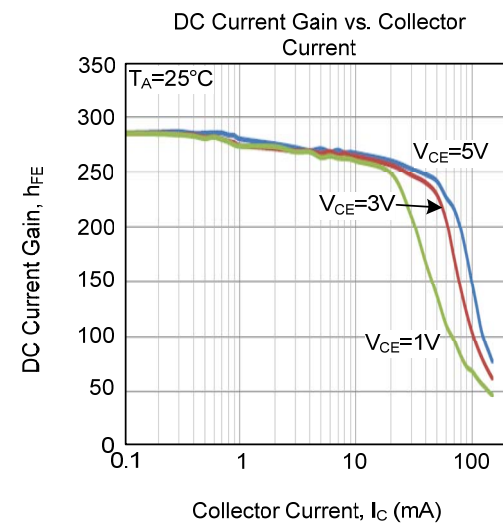
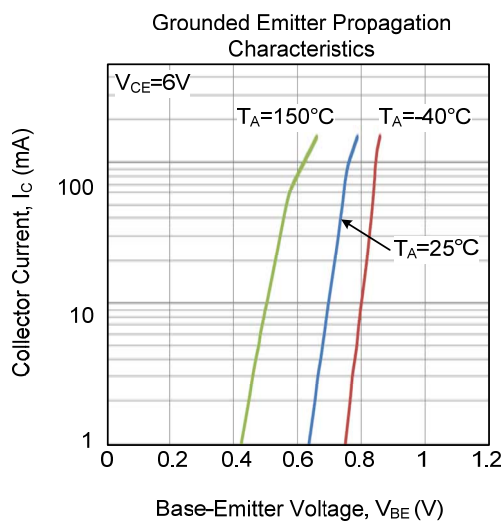
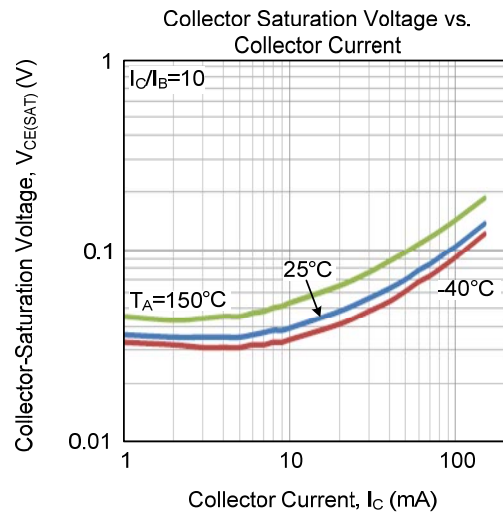
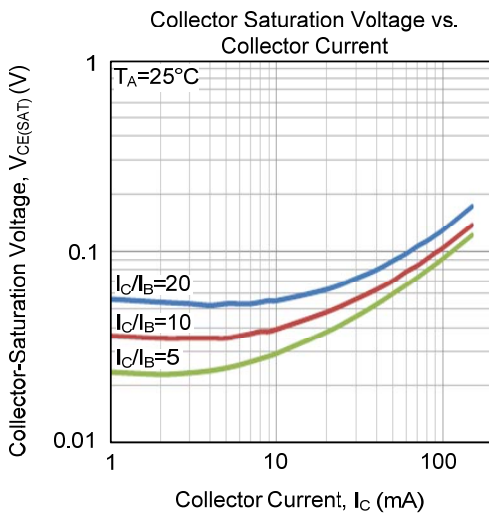
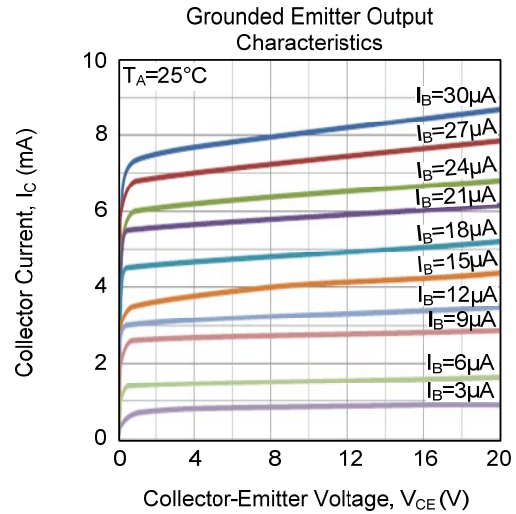
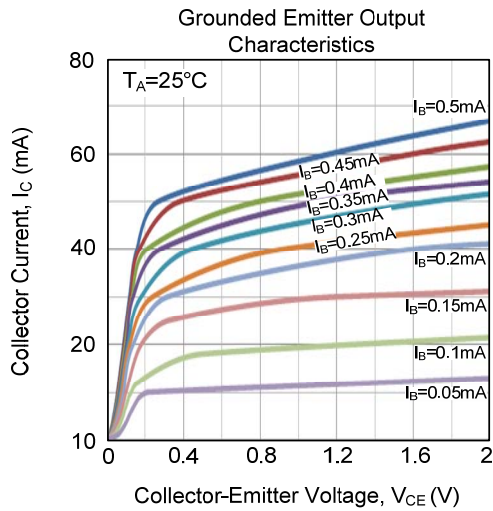
■ ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ , unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	$BV_{CBO}$	$I_C=50\mu\text{A}$	60			V
Collector Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1\text{mA}$	50			V
Emitter-base Breakdown Voltage	$BV_{EBO}$	$I_E=50\mu\text{A}$	7			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=60\text{V}$			0.1	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=7\text{V}$			0.1	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CE}=6\text{V}, I_C=1\text{mA}$	120		560	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=50\text{mA}, I_B=5\text{mA}$			0.4	V
Transition Frequency	$f_T$	$V_{CE}=12\text{V}, I_E=-2\text{mA}, f=100\text{MHz}$		180		MHz
Output Capacitance	$C_{ob}$	$V_{CE}=12\text{V}, I_E=0\text{A}, f=1\text{MHz}$		2	3.5	pF

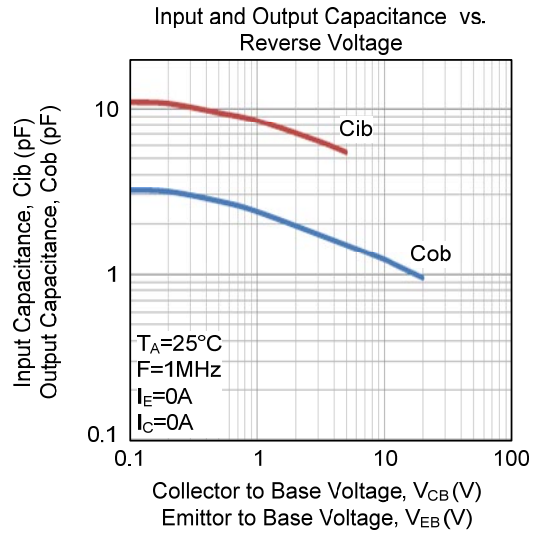
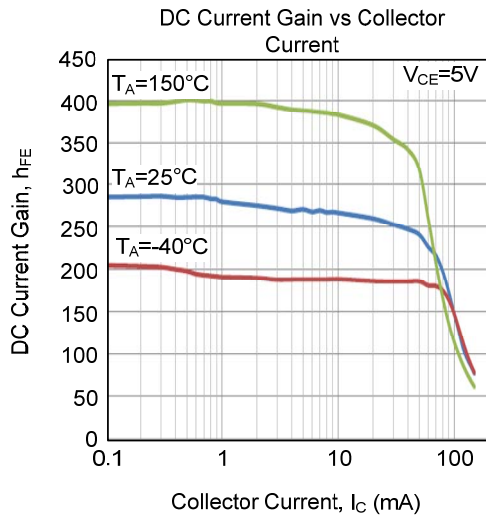
■ CLASSIFICATION OF  $h_{FE}$

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

## TYPICAL CHARACTERISTICS



### ■ TYPICAL CHARACTERISTICS



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