



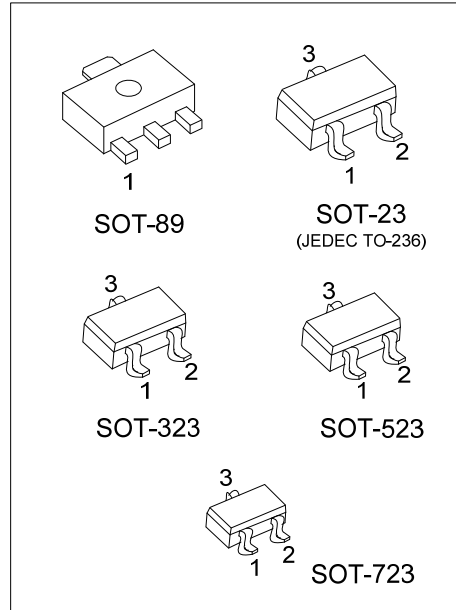
2SC4617

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) R: Tape Reel (2) AB3: SOT-89, AE3: SOT-23, AL3: SOT-323, AN3: SOT-523, AQ3: SOT-723 (3) Refer to CLASSIFICATION OF h_{FE} (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

■ 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.

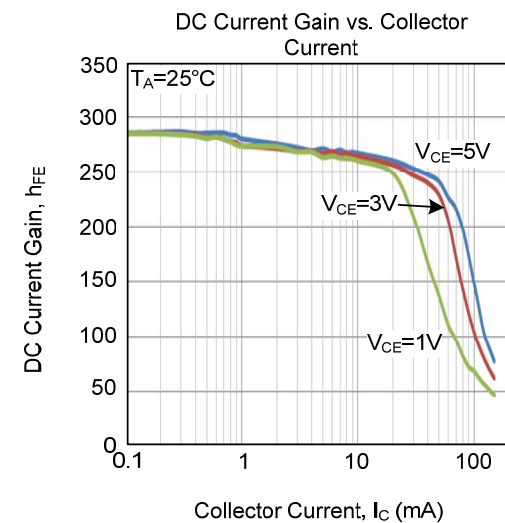
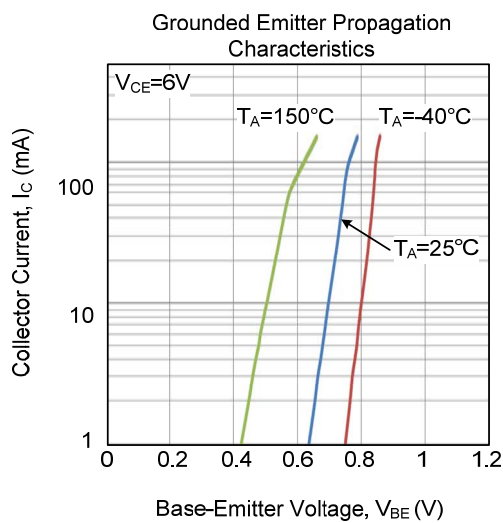
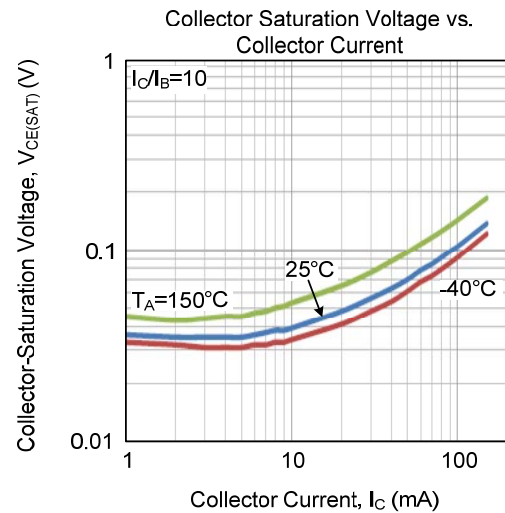
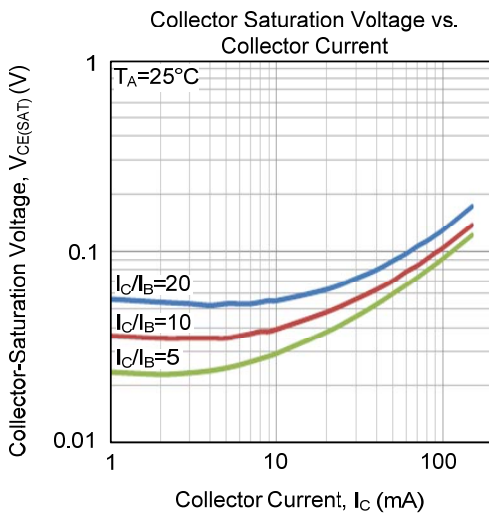
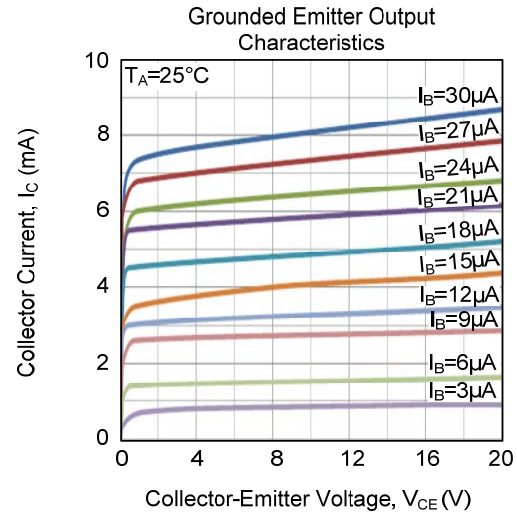
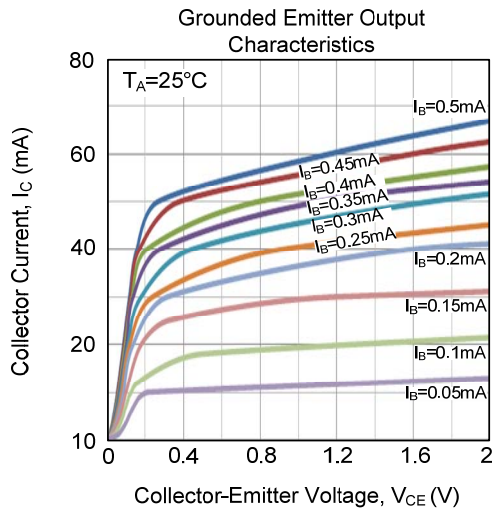
■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

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	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=7\text{V}$			0.1	μA
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

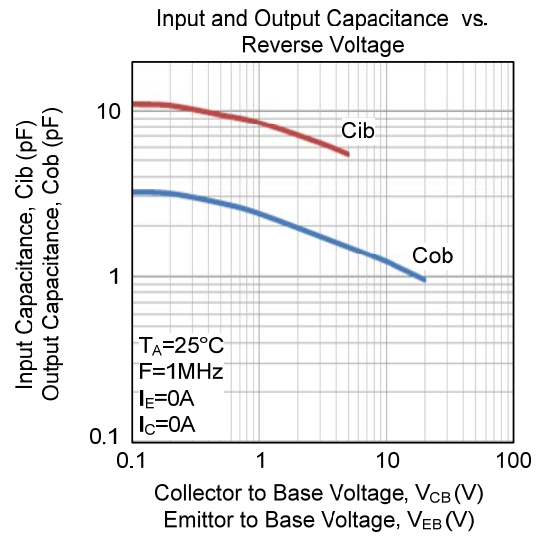
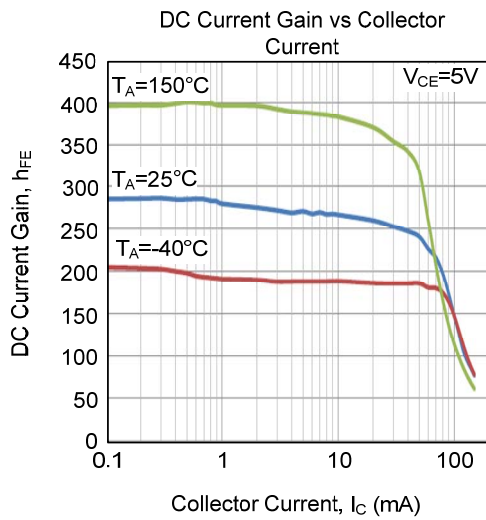
■ CLASSIFICATION OF h_{FE}

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

TYPICAL CHARACTERISTICS



■ TYPICAL CHARACTERISTICS



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