



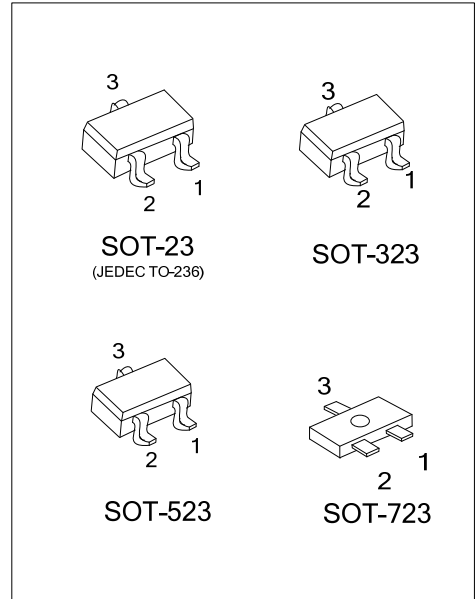
2SA1774

PNP EPITAXIAL SILICON TRANSISTOR

GENERAL PURPOSE TRANSISTOR

■ FEATURES

- * Excellent h_{FE} linearity
- * Complements the UTC **2SC4617**



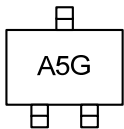
■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment			Packing
		1	2	3	
2SA1774G-x-AE3-R	SOT-23	E	B	C	Tape Reel
2SA1774G-x-AL3-R	SOT-323	E	B	C	Tape Reel
2SA1774G-x-AN3-R	SOT-523	E	B	C	Tape Reel
2SA1774G-x-AQ3-R	SOT-723	E	B	C	Tape Reel

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

<p>2SA1774G-x-AE3-R</p>	<p>(1) R: Tape Reel (2) AE3: SOT-23, AL3: SOT-323, AN3: SOT-523, AQ3: SOT-723 (3) x: refer to Classification of h_{FE} (4) G: Halogen Free and Lead Free</p>
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■ MARKING



■ ABSOLUTE MAXIMUM RATING ($T_A=25^\circ\text{C}$, 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}	-6	V
Collector Current		I_C	-0.15	A
Collector Power Dissipation	SOT-23	P_C	0.22	W
	SOT-323		0.16	
	SOT-523		0.15	
	SOT-723		0.125	
Junction Temperature		T_J	150	$^\circ\text{C}$
Storage Temperature		T_{STG}	-55 ~ +150	$^\circ\text{C}$

Note: 1. 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.

2. The device is guaranteed to meet performance specification within $0^\circ\text{C} \sim 70^\circ\text{C}$ operating temperature range and assured by design from $-20^\circ\text{C} \sim 85^\circ\text{C}$.

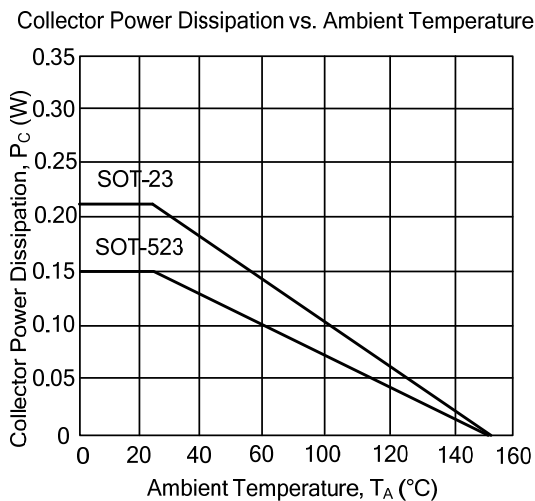
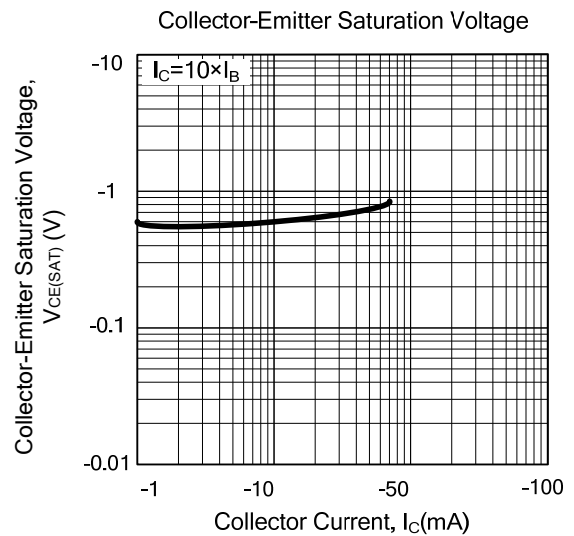
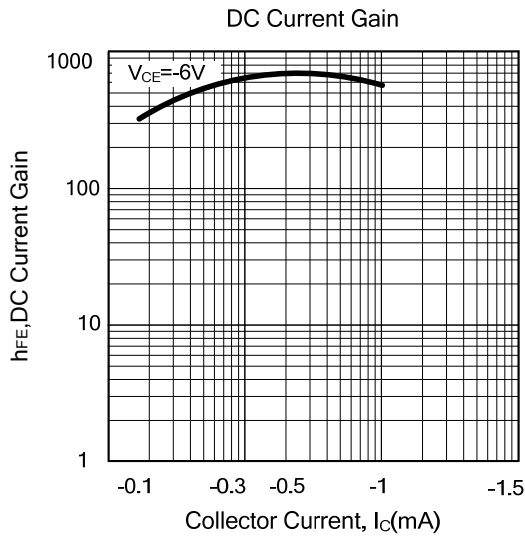
■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified.)

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}	$I_E = -50\mu\text{A}$	-6			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -60\text{V}$			-0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -6\text{V}$			-0.1	μA
DC Current Transfer Ratio	h_{FE}	$V_{CE} = -6\text{V}, I_C = -1\text{mA}$	120		560	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = -50\text{mA}, I_B = -5\text{mA}$			-0.5	V
Transition Frequency	f_T	$V_{CE} = -12\text{V}, I_E = 2\text{mA}, f = 100\text{MHz}$		140		MHz
Output Capacitance	C_{OB}	$V_{CB} = -12\text{V}, I_E = 0\text{A}, f = 1\text{MHz}$		4.0	5.0	pF

■ CLASSIFICATION OF h_{FE1}

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

TYPICAL CHARACTERISTICS



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