



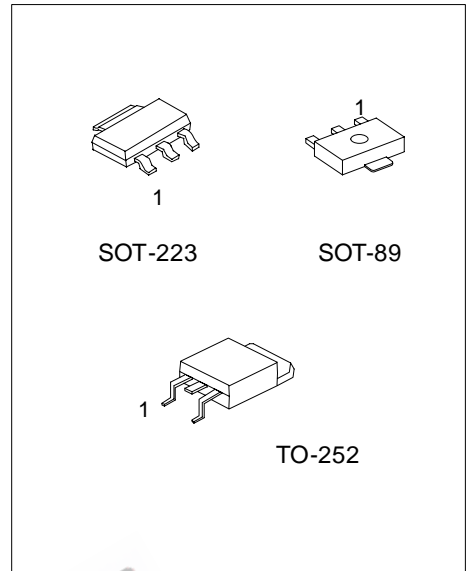
## 2SA1797

## PNP SILICON TRANSISTOR

### POWER TRANSISTOR

#### FEATURES

- \* Low saturation voltage.  
 $V_{CE(SAT)} = -0.35V(\text{Max})$  at  $I_C / I_B = -1A / -50mA$
- \* Excellent DC current gain characteristics



\*Pb-free plating product number:2SA1797L

#### ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Normal	Lead Free Plating		1	2	3	
2SA1797-x-AA3-R	2SA1797L-x-AA3-R	SOT-223	B	C	E	Tape Reel
2SA1797-x-AB3-R	2SA1797L-x-AB3-R	SOT-89	B	C	E	Tape Reel
2SA1797-x-TN3-R	2SA1797L-x-TN3-R	TO-252	B	C	E	Tape Reel
2SA1797-x-TN3-T	2SA1797L-x-TN3-T	TO-252	B	C	E	Tube

<p>2SA1797L-x-AA3-R</p>	<p>(1) Packing Type (2) Package Type (3) Rank (4) Lead Plating</p>	<p>(1) R: Tape Reel, T: Tube (2) AA3: SOT-223, AB3: SOT-89, TN3: TO-252 (3) refer to Classification of <math>h_{FE}</math> (4) L: Lead Free Plating, Blank: Pb/Sn</p>
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■ ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		$V_{CBO}$	-50	V
Collector-Emitter Voltage		$V_{CEO}$	-50	V
Emitter-Base Voltage		$V_{EBO}$	-6	V
Collector Power Dissipation	SOT-223	$P_C$	0.8	
	SOT-89		0.5	W
	TO-252		1.9	W
Collector Current	DC	$I_C$	-2	A
	PULSE(Note 1)		-5	A
Junction Temperature		$T_J$	150	°C
Storage Temperature		$T_{STG}$	-55 ~ +150	°C

Note: 1. Single pulse,  $P_W=10ms$

2. 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	$BV_{CBO}$	$I_C = -50\mu A$	-50			V
Collector-emitter Breakdown Voltage	$BV_{CEO}$	$I_C = -1mA$	-50			V
Emitter-base Breakdown Voltage	$BV_{EBO}$	$I_E = -50\mu A$	-6			V
Collector Cutoff Current	$I_{CBO}$	$V_{CB} = -50V$			-0.1	$\mu A$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB} = -5V$			-0.1	$\mu A$
Collector-emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C/I_B = -1A/-50mA$ (Note)		-0.15	-0.35	V
DC Current Gain	$h_{FE}$	$V_{CE} = -2V, I_C = -0.5A$ (Note)	120		400	
Transition Frequency	$f_T$	$V_{CE} = -2V, I_E = 0.5A, f = 100MHz$		200		MHz
Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0A, f = 1MHz$		36		pF

Note: Measured using pulse current.

■ CLASSIFICATION OF  $h_{FE}$

RANK	A	B
RANGE	120-240	200-400

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