



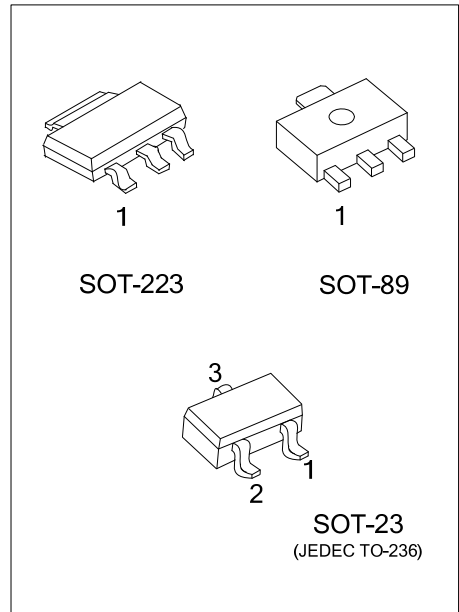
# 2SD1898

## NPN SILICON TRANSISTOR

### POWER TRANSISTOR

■ FEATURES

- \*High  $V_{CE0} = 80V$
- \*High  $I_C = 1A$  (DC)
- \*Good  $h_{FE}$  linearity.
- \*Low  $V_{CE(SAT)}$
- \*Complements the 2SB1260.



■ ORDERING INFORMATION

Ordering Number	Package	Pin Assignment			Packing
		1	2	3	
2SD1898G-x-AA3-R	SOT-223	B	C	E	Tape Reel
2SD1898G-x-AB3-R	SOT-89	B	C	E	Tape Reel
2SD1898G-x-AE3-R	SOT-23	E	B	C	Tape Reel

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

<p>2SD1898G-x-AB3-R</p>	<p>(1) R: Tape Reel</p> <p>(2) AA3: SOT-223, AB3: SOT-89, AE3: SOT-23</p> <p>(3) x: refer to Classification of <math>h_{FE}</math></p> <p>(4) G: Halogen Free and Lead Free</p>
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■ MARKING

SOT-223	SOT-89	SOT-23

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

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	100	V
Collector-Emitter Voltage	$V_{CEO}$	80	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current(DC)	$I_C$	1	A
Collector Current(PULSE) (Note 2)	$I_{CP}$	2	A
Collector Power Dissipation (Note 3)	SOT-223	1000	mW
	SOT-89	500	mW
	SOT-23	300	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55 ~ +150	$^\circ\text{C}$

Notes: 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.

- Duty = 1/2,  $P_W = 200\text{ms}$
- When mounted on a 40×40×0.7 mm ceramic board.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	$BV_{CBO}$	$I_C = 50\mu\text{A}$	100			V
Collector Emitter Breakdown Voltage	$BV_{CEO}$	$I_C = 1\text{mA}$	80			V
Emitter Base Breakdown Voltage	$BV_{EBO}$	$I_E = 50\mu\text{A}$	5			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB} = 80\text{V}, I_E = 0\text{A}$			1	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB} = 4\text{V}, I_C = 0\text{A}$			1	$\mu\text{A}$
DC Current Transfer Ratio	$h_{FE}$	$V_{CE} = 3\text{V}, I_C = 0.5\text{A}$	82		390	
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = 500\text{mA}, I_B = 20\text{mA}$		0.15	0.4	V
Transition Frequency	$f_T$	$V_{CE} = 10\text{V}, I_E = -50\text{mA}, f = 100\text{MHz}$		100		MHz
Output Capacitance	$C_{OB}$	$V_{CB} = 10\text{V}, I_E = 0\text{A}, f = 1\text{MHz}$		20		pF

■ CLASSIFICATION OF  $h_{FE}$

RANK	P	Q	R
RANGE	82-180	120-270	180-390

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