

UNISONIC TECHNOLOGIES CO., LTD

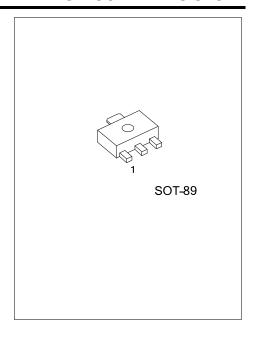
2SD1898

NPN SILICON TRANSISTOR

POWER TRANSISTOR

FEATURES

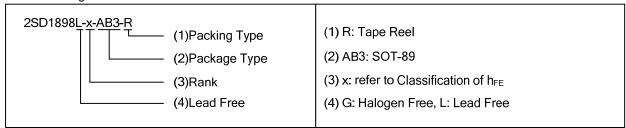
- *High V_{CEO}= 80V
- *High I_C= 1A (DC)
- *Good h_{FE} linearity.
- *Low $V_{\text{CE(SAT)}}$
- *Complements the 2SB1260.



ORDERING INFORMATION

Ordering	Number	Dealtone	Pin Assignment		nent	Doolsing	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SD1898L-x-AB3-R	2SD1898G-x-AB3-R	SOT-89	В	С	Е	Tape Reel	

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



www.unisonic.com.tw 1 of 2 QW-R208-030.C

■ ABSOLUTE MAXIMUM RATINGS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	80	٧
Emitter-Base Voltage	V_{EBO}	5	٧
Collector Current(DC)	Ic	1	Α
Collector Current(PULSE) (Note 2)	I _{CP}	2	Α
Collector Power Dissipation (Note 3)	P _c	0.5	W
Collector Power Dissipation (Note 3)	P _c	2	W
Junction Temperature	TJ	150	${\mathbb C}$
Storage Temperature	T _{STG}	-55 ~ + 150	$^{\circ}\mathbb{C}$

- 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. Duty=/1/2,Pw=200ms
 - 3. When mounted on a 40*40*0.7 mm ceramic board.

■ ELECTRICAL CHARACTERISTICS (T_A=25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Base Breakdown Voltage	BV_CBO	I _C = 50μA	100			V
Collector Emitter Breakdown Voltage	BV_CEO	I _C = 1mA	80			٧
Emitter Base Breakdown Voltage	BV_{EBO}	I _E =50μA	5			٧
Collector Cut-Off Current	I _{CBO}	V_{CB} =80V, I_E =0A			1	μΑ
Emitter Cut-Off Current	I _{EBO}	V_{EB} =4 V , I_{C} =0 A			1	μΑ
DC Current Transfer Ratio	h _{FE}	V _{CE} =3V, I _C = 0.5A	82		390	
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =500mA, I _B = 20mA		0.15	0.4	٧
Transition Frequency	f _T	V_{CE} =10V, I_{E} = -50mA, f=100MHz		100		MHz
Output Capacitance	Сов	V _{CB} = 10V, I _E = 0A, f=1MHz		20		рF

■ CLASSIFICATION OF h_{FF}

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

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