DESCRIPTION

The 2SD1898 is available in SOT89-3 package.

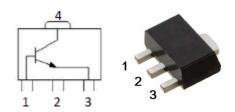
ORDERING INFORMATION

Package Type	ckage Type Part Number		
COT90 2	2SD1898-Q		
SOT89-3	2SD1898-R		
Note	SPQ: 1,000pcs/Reel		
AiT provides all RoHS Compliant Products			

CLASSIFICATION OF hFE

Part Number	h _{FE} Range
2SD1898-Q	120~270
2SD1898-R	180~390

PIN DESCRIPTION



SOT89-3

PIN#	DESCRIPTION		
1	BASE		
2	COLLECTOR		
3	EMITTER		

ABSOLUTE MAXIMUM RATINGS

Ta = 25°C, unless otherwise specified

32V
40V
6V
1A
1W
150°C
-55°C ~ + 150°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

^{*}Mounted on Printed Circuit Board.

2SD1898

TRANSISTORS NPN GENERAL PURPOSE TRANSISTOR

ELECTRICAL CHARACTERISTICS

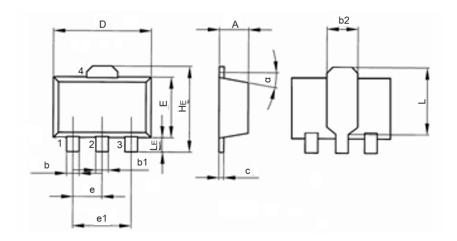
T_a = 25°C, unless otherwise specified

Parameter		Symbol	Conditions	Min.	Тур.	Max.	Unit
Collector-Emitter Breakdown Voltage		$V_{(BR)CEO}$	I _C =2mA, I _B =0	32	-	-	٧
Collector-Base Breakdown Voltage		V _{(BR)CBO}	I _C =100μA, I _E =0	40	-	-	٧
Emitter-Base Breakdov	wn Voltage	V _{(BR)EBO} I _E =100μA, I _C =0		6	-	-	V
Forward Current	2SD1898-Q		V _{CE} =1V, I _C =100mA	120	-	270	
Transfer Ratio (1)	2SD1898-R	h _{FE}		180	-	390	-
Collector-Base Cut-Off Current		I _{CBO}	V _{CB} = 35V, I _E =0	_	-	100	nA
Emitter-Base Cut-Off C	Current	I _{EBO}	I _{EBO} V _{EB} = 6V, I _C =0		-	100	nA
Collector-Emitter Satu	ration Voltage (1)	V _{CE} (sat)	(sat) I _C =800mA, I _B =80mA		-	0.5	V
Transition Frequency		f⊤	I _C =50mA, V _{CE} =10V, f=100MHz	-	100	-	MHz

⁽¹⁾ Pulse method : tw:300µs , duty ratio≤2%

PACKAGE INFORMATION

Dimension in SOT89-3 Package



CVMDOL	MILLIMETERS			
SYMBOL	Min.	Тур.	Max.	
Α	1.400	-	1.600	
b	0.350	-	0.550	
b1	0.400	-	0.650	
b2	-	1.600	-	
С	0.350	-	0.450	
D	4.400	-	4.600	
Е	2.350	-	2.550	
е	-	1.500	-	
e1	-	3.000	-	
HE	-	4.150	-	
L	-	2.700	-	
LE	-	1.000	-	
α	-	5°	-	

2SD1898

TRANSISTORS NPN GENERAL PURPOSE TRANSISTOR

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operating safeguards.

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