

Features

High voltage: V_{CEO}=80V

• High Breakdown Voltage and Current

• Excellent DC Current Gain Linearity

• Low Collector-Emitter Saturation Voltage



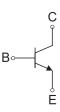
2. COLLECTOR





Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
H2SD1898	SOT-89	DFQ/DF	1000



Maximum Ratings (Ta=25 unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	80	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	1	А
Pc	Collector Power Dissipation	0.5	W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}$

Electrical Characteristics (Ta=25 unless otherwise specified)

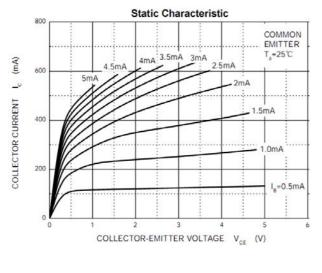
Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =50μA , I _E =0	100		V
Collector-emitter breakdown voltage	V _{(BR)CEO} *	I _C = 1mA, I _B =0	80		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 50μA, I _C =0	5		V
Collector cut-off current	I _{CBO}	V _{CB} =80V, I _E =0		1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =4V, I _C =0		1	μΑ
DC current gain	h _{FE}	V _{CE} =5V, I _C =200mA	120	390	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =500m A, I _B =20mA		0.4	V
Transition frequency	f _T	V _{CE} =10V, I _C =200mA	100		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V,I _E =0,f=1MHz		20	pF

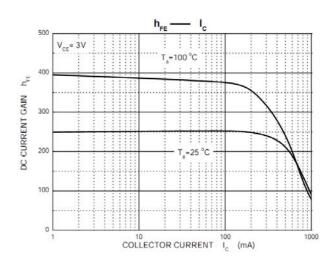
pulse test

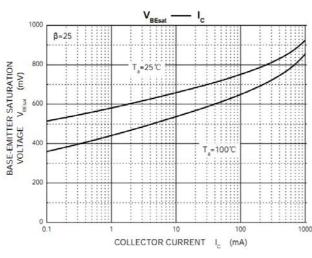
Classifiction Of hFE

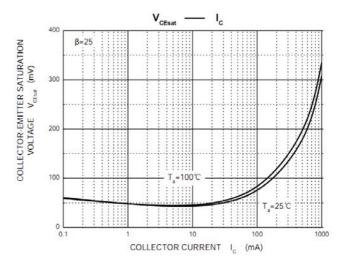
Rank	H2SD1898T100Q H2SD1898T1	
Range	120-270	180-390
Marking	DFQ	DF

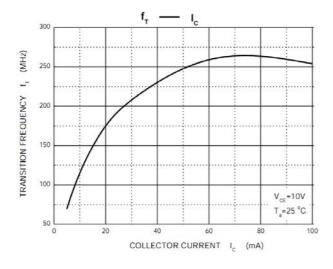
Typical Characteristics

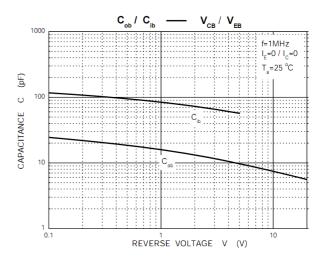


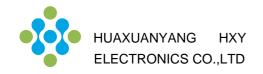


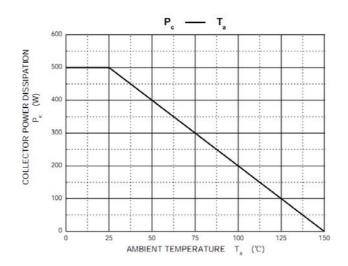




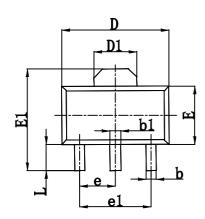


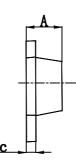






SOT-89 Package Outline Dimensions





Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	1.400	1.600	0.055	0.063	
b	0.320	0.520	0.013	0.020	
b1	0.400	0.580	0.016	0.023	
С	0.350	0.440	0.014	0.017	
D	4.400	4.600	0.173	0.181	
D1	1.550 REF.		0.061 REF.		
E	2.300	2.600	0.091	0.102	
E1	3.940	4.250	0.155	0.167	
е	1.500 TYP.		0.060 TYP.		
e1	3.000 TYP.		0.118 TYP.		
L	0.900	1.200	0.035	0.047	



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