

2SD1898 TRANSISTOR (NPN)

FEATURES

- High Breakdown Voltage and Current
- Excellent DC Current Gain Linearity
- Complement the 2SB1260
- Low Collector-Emitter Saturation Voltage

1.BASE 2.COLLECTOR 3.EMITTER SOT-89

MAXIMUM RATINGS (Ta=25°C 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	1	Α
Pc	Collector Power Dissipation	500	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	250	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	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	μA
DC current gain	h_{FE}	V _{CE} =3V, I _C =500mA	82		390	
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	I _C =500mA,I _B =20mA			0.4	V
Transition frequency	f _T	VcE=10V,lc=50mA, f=100MHz		100		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz		20		pF

CLASSIFICATION OF h_{FE}

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



