

2SA1298 TRANSISTOR (PNP)

FEATURES

- Low Frequency Power Amplifier Application
- Power Swithing Applications

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-35	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-800	mA
Pc	Collector Power Dissipation	200	mW
$R_{\Theta JA}$	Thermal Resistance From Junction To Ambient	625	°C/W
$T_J,\!T_stg$	Operation Junction and Storage Temperature Range	-55∼+150	℃



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 =-1mA, I _E =0	-35			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	-30			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-1mA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-30V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC ourrent gain	h _{FE(1)}	V _{CE} =-1V, I _C =-100mA	100		320	
DC current gain	h _{FE(2)}	V _{CE} =-1V, I _C =-800mA	40			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-500mA, I _B =-20mA			-0.4	V
Base-emitter voltage	V _{BE}	V _{CE} =-1V,I _C =-10mA,	-0.5		-0.8	V
Transition frequency	f _T	V _{CE} =-5V,I _C =-10mA		120		MHz
Collector output capacitance	Cob	V _{CB} =-10V, I _E =0, f=1MHz		13		pF

CLASSIFICATION OF h_{FE(1)}

RANK	0	Y
RANGE	100 - 200	160 - 320
MARKING	IO	IY



