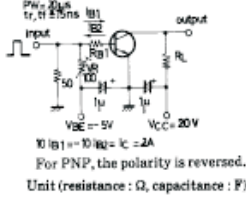


2SD2198

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit	
Collector cutoff current	IcBO	V _{CB} = 40V , I _E = 0			0.1	mA	
Emitter cutoff current	I _{EBO}	V _{EB} = 4V , I _C = 0			0.1	mA	
DC current Gain	h _{FE}	V _{CE} = 2V , I _C = 1A	70		280		
		V _{CE} = 2V , I _C = 3A	30				
Gain bandwidth product	f _T	V _{CE} = 5V , I _C = 1A		30		MHz	
Output capacitance	C _{ob}	V _{CB} = 10V , f = 1MHz		100		pF	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C = 3A , I _B = 0.3A			0.4	V	
Collector-to-base breakdown voltage	V _{(BR)CBO}	I _C = 1mA , I _E = 0	60			V	
Collector-to-emitter breakdown voltage	V _{(BR)CEO}	I _C = 1mA , R _{BE} = ∞	50			V	
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 1mA , I _C = 0	6			V	
Turn-on time	t _{on}	 <p>Unit (resistance : Ω, capacitance : F)</p>		0.1		μs	
Storage time	t _{stg}				1.4		μs
Fall time	t _f				0.2		μs

■ hFE Classification

Rank	Q	R	S
hFE	70~140	100~200	140~280