

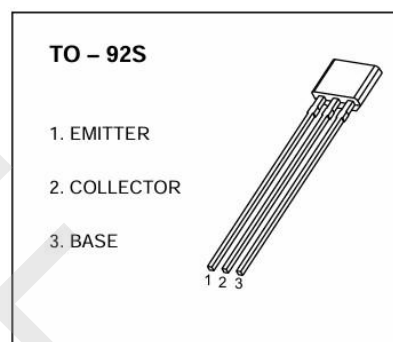
2SA1585

Features

- Complementary to: 2SC4115
- Package: TO-92S

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	-40	V
Collector-emitter voltage	BV_{CEO}	-20	V
Emitter-base voltage	BV_{EBO}	-6	V
Collector current	I_{CM}	-3	A
Collector Power Dissipation	P_C	300	mW
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55~+125	°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = -50\mu A, I_E = 0$	-40			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = -1mA, I_B = 0$	-20			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = -50\mu A, I_C = 0$	-6			V
Collector-base cut-off current	I_{CBO}	$V_{CB} = -30V, I_E = 0$			-0.1	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-0.1	μA
DC current gain	H_{FE}	$V_{CE} = -2V, I_C = -0.1A$	120		560	
Collector-emitter saturation voltage	V_{CESAT}	$I_C = -2A, I_B = -100mA$			-0.5	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C = -2A, I_B = -100mA$			-1.2	
Transition frequency	f_T	$V_{CE} = -2V, I_C = -0.5A,$		200		MHz

Classification of H_{FE}

Rank	Q	R	S
Range	120-270	180-390	270-560