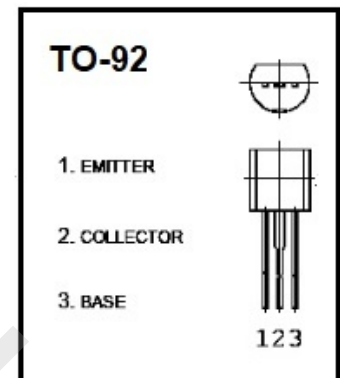


2SC1845

● Package: TO-92

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	120	V
Collector-emitter voltage	BV_{CEO}	120	V
Emitter-base voltage	BV_{EBO}	5	V
Collector current	I_{CM}	50	mA
Collector Power Dissipation	P_C	500	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}	$I_C=100\mu A, I_E=0$	120			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA, I_B=0$	120			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	5			V
Collector-base cut-off current	I_{CBO}	$V_{CB}=120V, I_E=0$			0.05	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.05	μA
DC current gain	H_{FE1}	$V_{CE}=6V, I_C=1mA$	200		1200	
	H_{FE2}	$V_{CE}=1V, I_C=0.1mA$	150			
Collector-emitter saturation voltage	V_{CESAT}	$I_C=10mA, I_B=1mA$			0.3	V
Base-Emitter Saturation Voltage	$V_{BE(ON)}$	$V_{CE}=6V, I_C=1mA$			0.65	V
Transition frequency	f_T	$V_{CE}=6V, I_C=1mA,$	50			MHz

Classification of H_{FE1}

Rank	P	F	E	U
Range	200-400	300-600	400-800	600-1200