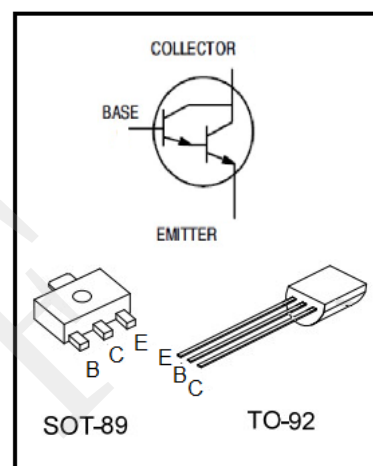


Package: TO-92/ SOP-89

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating		Unit
Collector-base voltage	BV_{CBO}	30		V
Collector-emitter voltage	BV_{CEO}	30		V
Emitter-base voltage	BV_{EBO}	10		V
Collector current	I_{CM}	500		mA
Collector Power Dissipation	P_C	TO-92	625	mW
		SOP-89	500	
Junction Temperature	T_j	150		°C
Storage Temperature	T_{stg}	-55~+150		°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=100\mu A, I_E=0$	30			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=100\mu A, I_B=0$	30			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	10			V
collector-base cut-off current	I_{CBO}	$V_{CB}=30V, I_E=0$			0.1	μA
collector-emitter cut-off current	I_{CEO}	$V_{CE}=20V, I_B=0$			2	μA
emitter-base cut-off current	I_{EBO}	$V_{EB}=10V, I_C=0$			0.1	μA
DC current gain	H_{FE1}	$V_{CE}=5V, I_B=10mA$	5K			
	H_{FE2}	$V_{CE}=5V, I_B=100mA$	10K			
collector-emitter saturation voltage	V_{CESAT}	$I_C=100mA, I_B=0.1mA$			1.5	V
Base-Emitter Saturation Voltage	$V_{BE(on)}$	$V_{CE}=5V, I_B=100mA$			2	V
Transition frequency	f_T	$V_{CE}=5V, I_B=10mA$	125			MHz