

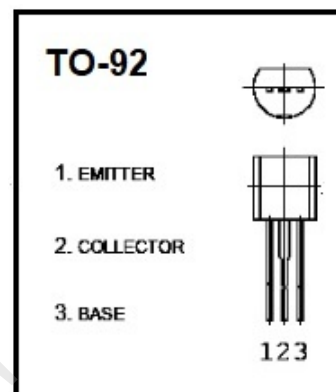
2SC2120

Features

- Complementary to: 2SA950
- Package: TO-92

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	35	V
Collector-emitter voltage	BV_{CEO}	30	V
Emitter-base voltage	BV_{EBO}	5	V
Collector current	I_{CM}	800	mA
Collector Power Dissipation	P_C	600	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}	$I_C=100\mu A, I_E=0$	35			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA, I_B=0$	30			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	5			V
Collector-base cut-off current	I_{CBO}	$V_{CB}=35V, I_E=0$			0.1	μA
Collector-emitter cut-off current	I_{CEO}	$V_{CE}=30V, I_B=0$			0.1	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.1	μA
DC current gain	H_{FE1}	$V_{CE}=1V, I_C=100mA$	100		320	
	H_{FE2}	$V_{CE}=1V, I_C=700mA$	35			
Collector-emitter saturation voltage	V_{CESAT}	$I_C=500mA, I_B=20mA$			0.7	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C=500mA, I_B=20mA$			1.2	V
Transition frequency	f_T	$V_{CE}=5V, I_C=10mA, f=30MHz$	100			MHz

Classification of H_{FE}

Rank	O	Y
Range	100-200	160-320