

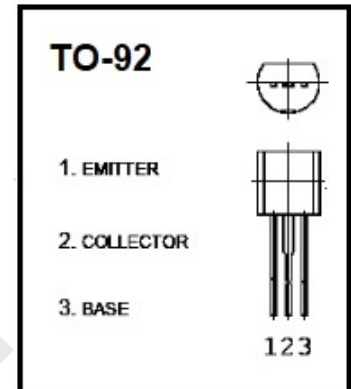
# 2SA950

## Features

- Complementary to: 2SC2120
- 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	$\mu A$
Collector-emitter cut-off current	$I_{CEO}$	$V_{CE}=-30V, I_B=0$			-0.1	$\mu A$
Emitter-base cut-off current	$I_{EBO}$	$V_{EB}=-5V, I_C=0$			-0.1	$\mu A$
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