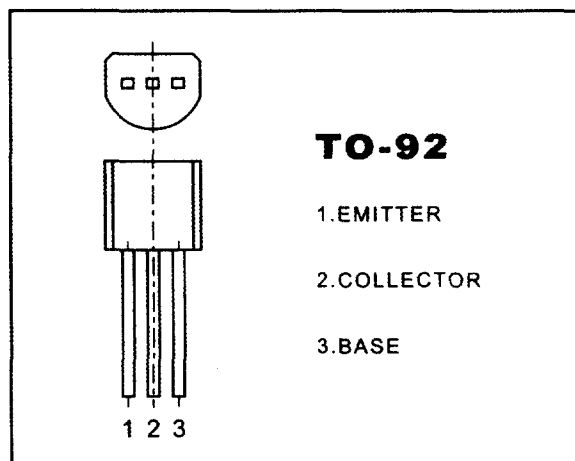


## TO-92 Plastic-Encapsulate Transistors

## 2SC2120 TRANSISTOR(NPN)



## FEATURES

**Power dissipation**

$P_{CM}$ : 0.6W ( $T_{amb}=25^{\circ}C$ )

**Collector current**

$I_{CM}$ : 0.8 A

**Collector-base voltage**

$V_{(BR)CBO}$ : 35 V

**Operating and storage junction temperature range**

$T_{stg}$ :  $-55^{\circ}C$  to  $+150^{\circ}C$

$T_J$ :  $150^{\circ}C$

## ELECTRICAL CHARACTERISTICS

( $T_{amb}=25^{\circ}C$  unless otherwise specified)

Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = 0.1 \text{ mA}, I_E = 0$	35		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = 10 \text{ mA}, I_B = 0$	30		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = 0.1 \text{ mA}, I_C = 0$	5		V
Collector cut-off current	$I_{CBO}$	$V_{CB} = 35 \text{ V}, I_E = 0$		0.1	$\mu\text{A}$
Collector cut-off current	$I_{CEO}$	$V_{CE} = 25 \text{ V}, I_B = 0$		0.1	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 5 \text{ V}, I_C = 0$		0.1	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE} = 1 \text{ V}, I_C = 100 \text{ mA}$	100	320	
Collector-emitter saturation voltage	$V_{CEsat}$	$I_C = 500 \text{ mA}, I_B = 20 \text{ mA}$		0.5	V
Base-emitter voltage	$V_{BE}$	$V_{CE} = 1 \text{ V}, I_C = 10 \text{ mA}$		0.8	V
Transition frequency	$f_t$	$V_{CE} = 5 \text{ V}, I_C = 10 \text{ mA}$	100		MHz

CLASSIFICATION OF  $h_{FE}$ 

Rank	O	Y
Range	100-200	160-320

Typical Characteristics

2SC2120

