

## TO-92L Plastic-Encapsulate Transistors

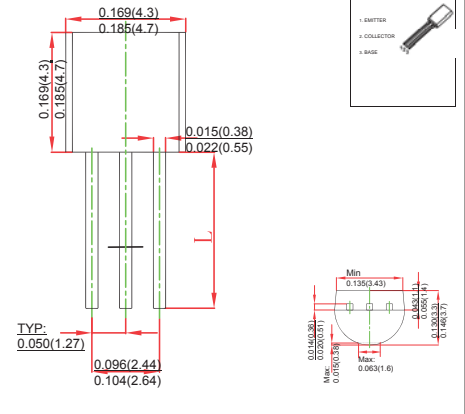
### FEATURE

- High Voltage: $V_{CEO}=-160V$
- Large Continuous Collector Current Capability
- Complementary to 2SC2383
- TRANSISTOR (PNP)

### MECHANICAL DATA

- Case style:TO-92 molded plastic
- Mounting position:any

### TO-92



## MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Base Voltage	-160	V
$V_{CEO}$	Collector-Emitter Voltage	-160	V
$V_{EBO}$	Emitter-Base Voltage	-6	V
$I_C$	Collector Current -Continuous	-1	A
$P_C$	Collector Power Dissipation	0.9	W
$T_j$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55 to +150	°C

## Electrical Specification ( $T_A=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-100\mu A, I_E=0$	-160		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1mA, I_B=0$	-160		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10\mu A, I_C=0$	-6		V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-150V, I_E=0$		-1	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-6V, I_C=0$		-1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE}=-5V, I_C=-200mA$	60	320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$		-1.5	V
Base-emitter voltage	$V_{BE}$	$I_C=-5mA, V_{CE}=-5V$		-0.75	V
Transition frequency	$f_T$	$V_{CE}=-5V, I_C=-200mA$	15		MHz
Collector Output capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$		35	pF

### CLASSIFICATION OF $h_{FE}$

Rank	R	O	Y
Range	60-120	100-200	160-320

# RATINGS AND CHARACTERISTIC CURVES

