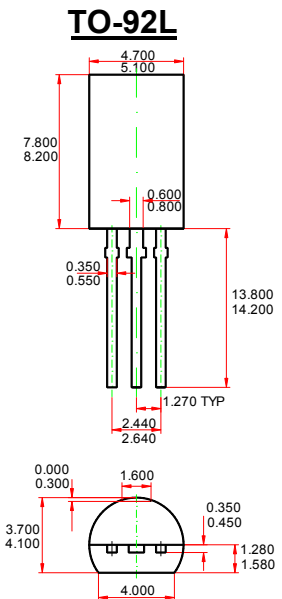




- 1. EMITTER
- 2. COLLECTOR
- 3. BASE

Features

- ✧ High voltage: $V_{CEO}=160V$
- ✧ Large continuous collector current capability
- ✧ Complementary to 2SA1013



Dimensions in inches and (millimeters)

MAXIMUM RATINGS ($T_A=25^{\circ}C$ unless otherwise noted)

Symbol	Parameter	Value	Units
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	0.75	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature	-55 to +150	$^{\circ}C$

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ 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	$V(BR)_{CEO}$	$I_C = 10mA, I_B = 0$	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	μA
Collector cut-off current	I_{CER}	$V_{CB} = 150V, R_{EB} = 10M\Omega$		10	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 6V, I_C = 0$		1	μA
DC current gain	h_{FE1}	$V_{CE} = 5V, I_C = 200mA$	60	320	
	h_{FE2}	$V_{CE} = 5V, I_C = 10mA$	40		
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 500mA, I_B = 50mA$		1	V
Base-emitter voltage	V_{BE}	$I_C = 5mA, V_{CE} = 5V$		0.75	V
Transition frequency	f_T	$V_{CE} = 5V, I_C = 200mA$	20		MHz

CLASSIFICATION OF h_{FE1}

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

Typical characteristics

