

Silicon PNP Power Transistors

2SA1940

DESCRIPTION

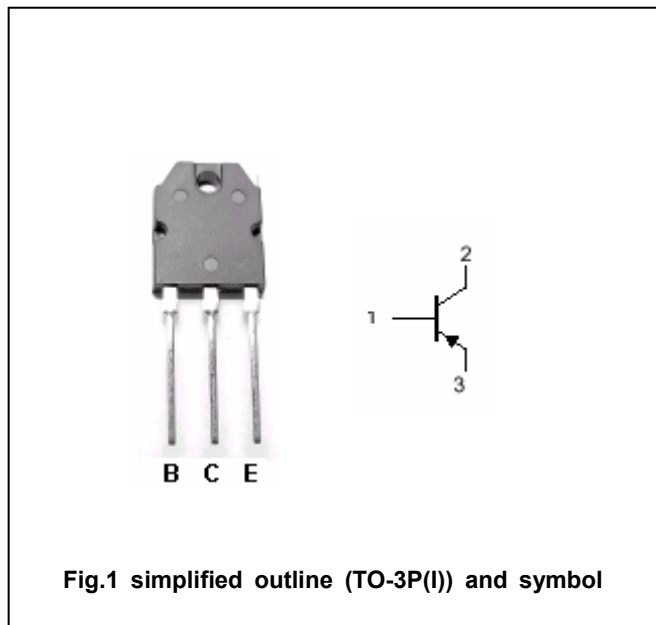
- With TO-3P(I) package
- Complement to type 2SC5197

APPLICATIONS

- Power amplifier applications
- Recommend for 55W high fidelity audio frequency amplifier output stage

PINNING

PIN	DESCRIPTION
1	Base
2	Collector;connected to mounting base
3	Emitter

Absolute maximum ratings($T_c=25^\circ\text{C}$)

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-120	V
V_{CEO}	Collector-emitter voltage	Open base	-120	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-8	A
I_B	Base current		-0.8	A
P_C	Collector power dissipation	$T_C=25^\circ\text{C}$	80	W
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

Silicon PNP Power Transistors**2SA1940****CHARACTERISTICS****T_j=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CEO}$	Collector-emitter breakdown voltage	$I_C=-50mA; I_B=0$	-120			V
V_{CEsat}	Collector-emitter saturation voltage	$I_C=-6A; I_B=-0.6A$			-2.0	V
V_{BE}	Base-emitter voltage	$I_C=-4A; V_{CE}=-5V$			-1.5	V
I_{CBO}	Collector cut-off current	$V_{CB}=-120V; I_E=0$			-5	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=-5V; I_C=0$			-5	μA
h_{FE-1}	DC current gain	$I_C=-1A; V_{CE}=-5V$	55		160	
h_{FE-2}	DC current gain	$I_C=-4A; V_{CE}=-5V$	35			
f_T	Transition frequency	$I_C=-1A; V_{CE}=-5V$		30		MHz
C_{OB}	Output capacitance	$I_E=0; V_{CB}=-10V; f=1MHz$		260		pF

◆ h_{FE-1} classifications

R	O
55-110	80-160

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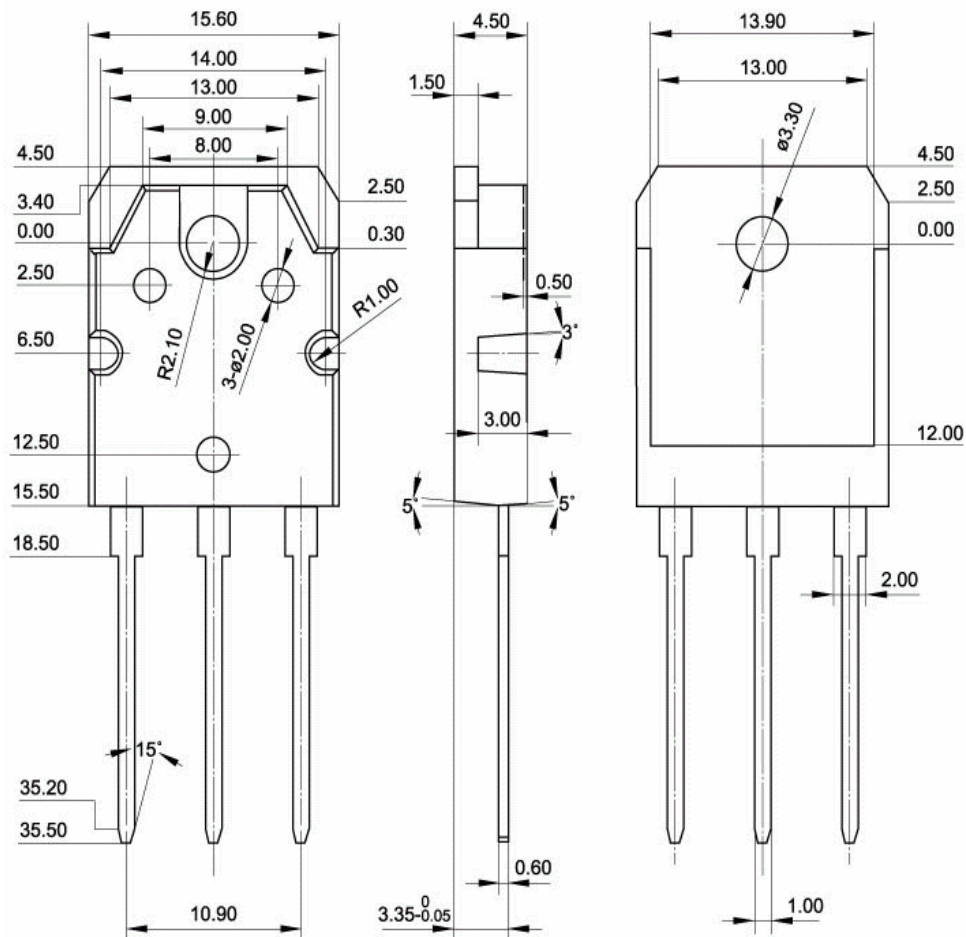


Fig.2 Outline dimensions

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