

Silicon PNP Power Transistors

2SB1347

DESCRIPTION

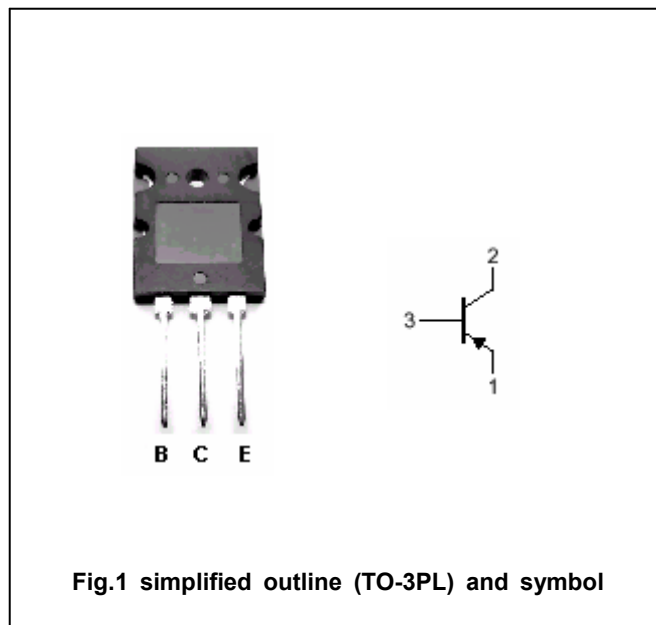
- With TO-3PL package
- Complement to type 2SD2029
- Wide area of safe operation
- High transition frequency f_T
- Optimum for the output stage of a Hi-Fi audio amplifier

APPLICATIONS

- For high power amplification

PINNING

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

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

SYMBOL	PARAMETER	CONDITIONS	VALUE	UNIT
V_{CBO}	Collector-base voltage	Open emitter	-160	V
V_{CEO}	Collector-emitter voltage	Open base	-160	V
V_{EBO}	Emitter-base voltage	Open collector	-5	V
I_C	Collector current		-12	A
I_{CM}	Collector current-peak		-20	A
P_C	Collector power dissipation	$T_a=25^\circ\text{C}$	3.5	W
		$T_C=25^\circ\text{C}$	120	
T_j	Junction temperature		150	$^\circ\text{C}$
T_{stg}	Storage temperature		-55~150	$^\circ\text{C}$

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CHARACTERISTICS

Tj=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V_{CEsat}	Collector-emitter saturation voltage	$I_C=-8A$; $I_B=-0.8A$			-2.0	V
V_{BE}	Base-emitter on voltage	$I_C=-8A$; $V_{CE}=-5V$			-1.8	V
I_{CBO}	Collector cut-off current	$V_{CB}=-160V$; $I_E=0$			-50	μA
I_{EBO}	Emitter cut-off current	$V_{EB}=-3V$; $I_C=0$			-50	μA
h_{FE-1}	DC current gain	$I_C=-20mA$; $V_{CE}=-5V$	20			
h_{FE-2}	DC current gain	$I_C=-1A$; $V_{CE}=-5V$	60		200	
h_{FE-3}	DC current gain	$I_C=-8A$; $V_{CE}=-5V$	20			
f_T	Transition frequency	$I_C=-0.5A$; $V_{CE}=-5V$; $f=1MHz$		15		MHz
C_{OB}	Collector output capacitance	$I_E=0$; $f=1MHz$; $V_{CB}=-10V$		400		pF

◆ h_{FE-2} classifications

Q	S	P
60-120	80-160	100-200

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Technical drawing of a mechanical part showing front, side, and bottom views with dimensions.

Front View Dimensions:

- Overall width: 20.00 ± 0.2
- Distance from left edge to center of first hole: 18.00
- Distance between centers of first two holes: 8.00
- Hole diameter: $\phi 3.30 \pm 0.2$
- Top flange thickness: 6.00
- Distance from top flange to center of first hole: 4.00
- Distance from top flange to center of second hole: 0.00
- Distance from top flange to center of third hole: 2.00
- Distance from top flange to center of fourth hole: 9.00
- Distance from top flange to center of fifth hole: 17.50
- Distance from top flange to center of sixth hole: 20.00
- Distance from top flange to center of seventh hole: 22.50
- Distance from top flange to center of eighth hole: 40.00
- Distance from top flange to center of ninth hole: 40.50
- Distance from top flange to center of tenth hole: 40.00
- Distance from top flange to center of eleventh hole: 40.50
- Distance from top flange to center of twelfth hole: 40.00
- Distance from top flange to center of thirteenth hole: 40.50
- Distance from top flange to center of fourteenth hole: 40.00
- Distance from top flange to center of fifteenth hole: 40.50
- Distance from top flange to center of sixteenth hole: 40.00
- Distance from top flange to center of seventeenth hole: 40.50
- Distance from top flange to center of eighteenth hole: 40.00
- Distance from top flange to center of nineteenth hole: 40.50
- Distance from top flange to center of twentieth hole: 40.00
- Distance from top flange to center of twenty-first hole: 40.50
- Distance from top flange to center of twenty-second hole: 40.00
- Distance from top flange to center of twenty-third hole: 40.50
- Distance from top flange to center of twenty-fourth hole: 40.00
- Distance from top flange to center of twenty-fifth hole: 40.50
- Distance from top flange to center of twenty-sixth hole: 40.00
- Distance from top flange to center of twenty-seventh hole: 40.50
- Distance from top flange to center of twenty-eighth hole: 40.00
- Distance from top flange to center of twenty-ninth hole: 40.50
- Distance from top flange to center of thirtieth hole: 40.00
- Distance from top flange to center of thirty-first hole: 40.50
- Distance from top flange to center of thirty-second hole: 40.00
- Distance from top flange to center of thirty-third hole: 40.50
- Distance from top flange to center of thirty-fourth hole: 40.00
- Distance from top flange to center of thirty-fifth hole: 40.50
- Distance from top flange to center of thirty-sixth hole: 40.00
- Distance from top flange to center of thirty-seventh hole: 40.50
- Distance from top flange to center of thirty-eighth hole: 40.00
- Distance from top flange to center of thirty-ninth hole: 40.50
- Distance from top flange to center of fortieth hole: 40.00
- Distance from top flange to center of forty-first hole: 40.50
- Distance from top flange to center of forty-second hole: 40.00
- Distance from top flange to center of forty-third hole: 40.50
- Distance from top flange to center of forty-fourth hole: 40.00
- Distance from top flange to center of forty-fifth hole: 40.50
- Distance from top flange to center of forty-sixth hole: 40.00
- Distance from top flange to center of forty-seventh hole: 40.50
- Distance from top flange to center of forty-eighth hole: 40.00
- Distance from top flange to center of forty-ninth hole: 40.50
- Distance from top flange to center of fiftieth hole: 40.00
- Distance from top flange to center of fifty-first hole: 40.50
- Distance from top flange to center of fifty-second hole: 40.00
- Distance from top flange to center of fifty-third hole: 40.50
- Distance from top flange to center of fifty-fourth hole: 40.00
- Distance from top flange to center of fifty-fifth hole: 40.50
- Distance from top flange to center of fifty-sixth hole: 40.00
- Distance from top flange to center of fifty-seventh hole: 40.50
- Distance from top flange to center of fifty-eighth hole: 40.00
- Distance from top flange to center of fifty-ninth hole: 40.50
- Distance from top flange to center of sixtieth hole: 40.00
- Distance from top flange to center of sixty-first hole: 40.50
- Distance from top flange to center of sixty-second hole: 40.00
- Distance from top flange to center of sixty-third hole: 40.50
- Distance from top flange to center of sixty-fourth hole: 40.00
- Distance from top flange to center of sixty-fifth hole: 40.50
- Distance from top flange to center of sixty-sixth hole: 40.00
- Distance from top flange to center of sixty-seventh hole: 40.50
- Distance from top flange to center of sixty-eighth hole: 40.00
- Distance from top flange to center of sixty-ninth hole: 40.50
- Distance from top flange to center of seventieth hole: 40.00
- Distance from top flange to center of seventy-first hole: 40.50
- Distance from top flange to center of seventy-second hole: 40.00
- Distance from top flange to center of seventy-third hole: 40.50
- Distance from top flange to center of seventy-fourth hole: 40.00
- Distance from top flange to center of seventy-fifth hole: 40.50
- Distance from top flange to center of seventy-sixth hole: 40.00
- Distance from top flange to center of seventy-seventh hole: 40.50
- Distance from top flange to center of seventy-eighth hole: 40.00
- Distance from top flange to center of seventy-ninth hole: 40.50
- Distance from top flange to center of eightieth hole: 40.00
- Distance from top flange to center of eighty-first hole: 40.50
- Distance from top flange to center of eighty-second hole: 40.00
- Distance from top flange to center of eighty-third hole: 40.50
- Distance from top flange to center of eighty-fourth hole: 40.00
- Distance from top flange to center of eighty-fifth hole: 40.50
- Distance from top flange to center of eighty-sixth hole: 40.00
- Distance from top flange to center of eighty-seventh hole: 40.50
- Distance from top flange to center of eighty-eighth hole: 40.00
- Distance from top flange to center of eighty-ninth hole: 40.50
- Distance from top flange to center of ninetieth hole: 40.00
- Distance from top flange to center of ninety-first hole: 40.50
- Distance from top flange to center of ninety-second hole: 40.00
- Distance from top flange to center of ninety-third hole: 40.50
- Distance from top flange to center of ninety-fourth hole: 40.00
- Distance from top flange to center of ninety-fifth hole: 40.50
- Distance from top flange to center of ninety-sixth hole: 40.00
- Distance from top flange to center of ninety-seventh hole: 40.50
- Distance from top flange to center of ninety-eighth hole: 40.00
- Distance from top flange to center of ninety-ninth hole: 40.50
- Distance from top flange to center of one hundred hole: 40.00