Silicon PNP Power Transistor 2SB1254

DESCRIPTION

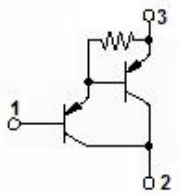
· Collector-Emitter Breakdown Voltage

$-V_{(BR)CEO}$= -140V(Min)

· Collector-Emitter Saturation Voltage

$-V_{CE(sat)}$: -2.5V(Max) @I_C= -6A





pin 1.Base
2.Collector
3.Emitter
TO-3PML package

APPLICATIONS

· Audio amplifier predriver

· High voltage switching circuits

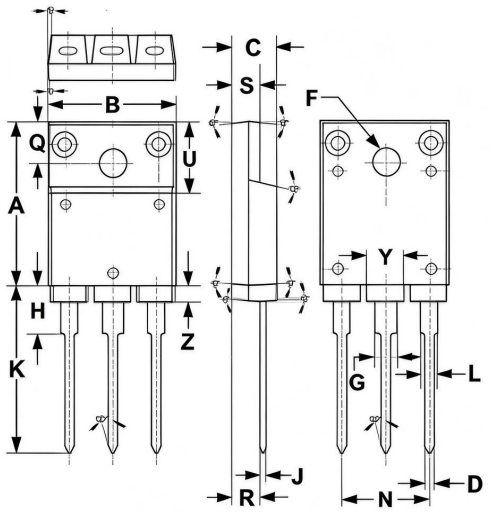
· AF power amplifier

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-160	V
V_{CEO}	Collector-Emitter Voltage	-140	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-7	A
I_B	Base Current-Continuous	-12	A
P_C	Collector Power Dissipation	70	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	1.79	℃/W



DIM	mm MIN	mm MAX
A	19.90	20.10
B	15.75	16.10
C	5.50	5.70
D	0.90	1.10
F	3.30	3.50
G	2.90	3.20
H	5.90	6.10
J	0.595	0.70
K	21.10	22.50
L	1.90	2.25
N	10.80	11.00
Q	4.90	5.10
R	3.75	3.95
S	3.20	3.60
U	9.90	10.10
Y	4.20	4.90
Z	1.90	2.10

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ELECTRICAL CHARACTERISTICS （T_C=25℃ unless otherwise specified）

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
$V_{(BR)CEO}$	Collector-Emitter Sustaining Voltage	I_C= -10mA; I_B= 0	-140	--	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -160V ; I_E= 0	--	-100	uA
I_{CEO}	Collector Cutoff Current	V_{CE}= -140V; I_B= 0	--	-100	uA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -5V; I_C= 0	--	-100	uA
h_{FE}	DC Current Gain	I_C= -1A ; V_{CE}= -5V	2000	--	--
		I_C= -6A ; V_{CE}= -5V	5000	30000	--
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -6A; I_B= -6mA	--	-2.5	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	I_C= -6A; I_B= -6mA	--	-3.0	V

◆ h_{FE} CLASSIFICATIONS

Q	P
5000-15000	8000-30000

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