

isc Silicon PNP Power Transistor

2SA1094

DESCRIPTION

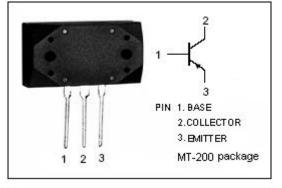
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= -140V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SC2564
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

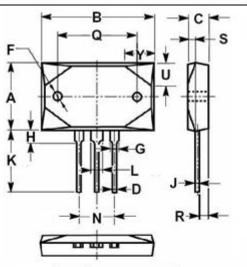
APPLICATIONS

- · Power amplifier applications
- Recommended for 80W high-fidelity audio frequency amplifier output stage

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-140	V
Vceo	Collector-Emitter Voltage	-140	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-12	A
le	Emitter Current-Continuous	12	А
Pc	Collector Power Dissipation @ Tc=25°C	120	W
TJ	Junction Temperature	150	°C
T _{stg}	Storage Temperature Range	-55~150	°C

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)





	m	m
DIM	MIN	MAX
Α	21.00	21.70
В	35.80	36.70
С	5.60	6.20
D	1.04	1.07
F	3.10	3.50
G	1.90	2.40
H	3.60	4.00
J	0.55	0.85
К	20.00	20.80
L	2.90	3.40
N	10.50	11.10
Q	24.00	24.50
R	2.90	3.30
S	2.00	2.20
U	6.90	7.10
Y	8.90	9.10

isc website: www.iscsemi.com

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ELECTRICAL CHARACTERISTICS

$T_c=25^{\circ}C$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA; I _B = 0	-140			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -0.01A; I _C = 0	-5			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-2.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -5A; V _{CE} = -5V			-2.0	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -140V ; I _E = 0			-50	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-50	μA
h _{FE-1}	DC Current Gain	I _C = -1A ; V _{CE} = -5V	55		240	
h _{FE-2}	DC Current Gain	I _C = -5A ; V _{CE} = -5V	30			

h_{FE-1} Classifications

R	о	Y	
55-110	80-160	120-240	

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