

isc Silicon PNP Power Transistor

2SA1494

DESCRIPTION

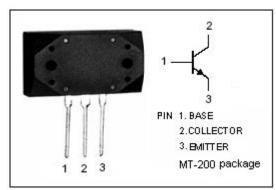
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= -200V(Min)
- · Good Linearity of hFE
- Complement to Type 2SC3858
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

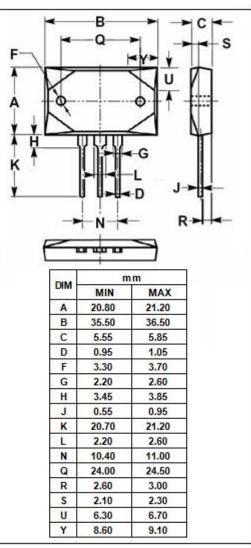
APPLICATIONS

· For audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-200	V
V _{CEO}	Collector-Emitter Voltage	-200	V
V _{EBO}	Emitter-Base Voltage	-6	V
Ic	Collector Current-Continuous	-17	А
I _B	Base Current-Continuous	-5	А
Pc	Collector Power Dissipation @ T _C =25℃	200	W
Тл	T _J Junction Temperature		$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C







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ELECTRICAL CHARACTERISTICS

T_c=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	I _C = -50mA ; I _B = 0	-200			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -1A			-2.5	V
I _{CBO}	Collector Cutoff Current	V _{CB} = -200V ; I _E = 0			-100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -6V; I _C = 0			-100	μА
h _{FE}	DC Current Gain	I _C = -8A ; V _{CE} = -4V	50		180	
Сов	Output Capacitance	I _E = 0 ; V _{CB} = -10V;f _{test} = 1.0MHz		500		pF
f⊤	Current-Gain—Bandwidth Product	I _E = 1A; V _{CE} = -12V		20		MHz

Switching times

t _{on}	Turn-on Time		0.6	μS
t _{stg}	Storage Time	I_{C} = -10A ,RL= 4 Ω , I_{B1} = - I_{B2} = -1A,V _{CC} = -40V	0.9	μ \$
tf	Fall Time		0.2	μ \$

h_{FE} Classifications

Υ	Р	G
50-100	70-140	90-180

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