isc Silicon PNP Power Transistor

2SA1494

DESCRIPTION

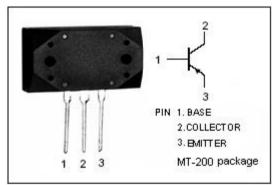
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= -200V(Min)
- Good Linearity of h_{FE}
- Complement to Type 2SC3858

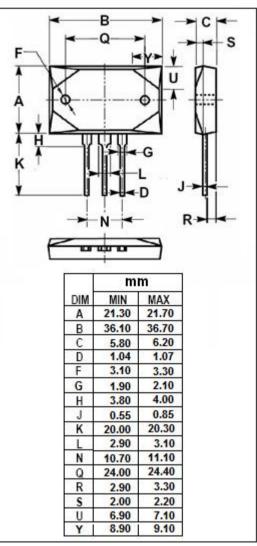
APPLICATIONS

· For audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

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	
P _C	P _C Collector Power Dissipation @ T _C =25 ℃		W	
TJ	T _J Junction Temperature		$^{\circ}\!$	
T _{stg}	T _{stg} Storage Temperature Range		$^{\circ}$ C	





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ELECTRICAL CHARACTERISTICS

 T_{C} =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	-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	μ \$
t _{stg}	Storage Time	I_C = -10A , R_L = 4 Ω , I_{B1} = - I_{B2} = -1A, V_{CC} = -40V	0.9	μ \$
t _f	Fall Time		0.2	μ S

♦ h_{FE} Classifications

Y	Р	G
50-100	70-140	90-180