

isc Silicon PNP Power Transistor

2SA1107

DESCRIPTION

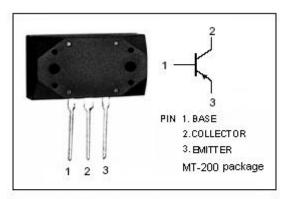
- Collector-Emitter Breakdown Voltage-V_{(BR)CEO}= -150V(Min)
- · Good Linearity of hFE
- · High Power Dissipation
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

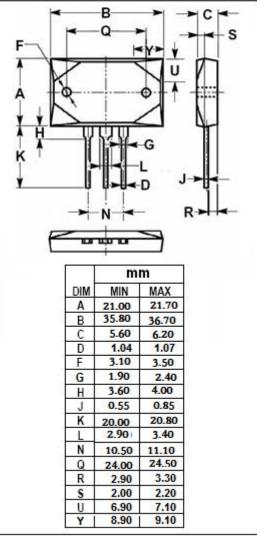


· For audio and general purpose applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-150	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current-Continuous	-10	A
Pc	Collector Power Dissipation @ T _C =25°C	120	W
Tu	Junction Temperature	150	$^{\circ}\mathbb{C}$
T _{stg}	Storage Temperature Range	-55~150	$^{\circ}$







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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 = -25mA; I _B = 0	-150			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	I _E = -1mA; I _C = 0	-5			V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -5A; I _B = -0.5A			-2.0	V
$V_{\text{BE(on)}}$	Base-Emitter On Voltage	I _C = -5A; V _{CE} = -5V			-2.0	V
І _{СВО}	Collector Cutoff Current	V _{CB} = -150V; I _E = 0			-10	μА
ІЕВО	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-10	μА
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	55		160	
h _{FE-2}	DC Current Gain	I _C = -5A; V _{CE} = -5V	35			
Сов	Output Capacitance	I _E = 0; V _{CB} = -10V; f _{test} = 1.0MHz		250		pF
f⊤	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V		50		MHz

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