

isc Silicon PNP Power Transistor

2SA1943

DESCRIPTION

- · High Current Capability
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}=- 230V(Min)
- Complement to Type 2SC5200
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

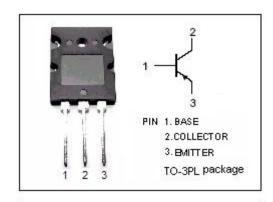
APPLICATIONS

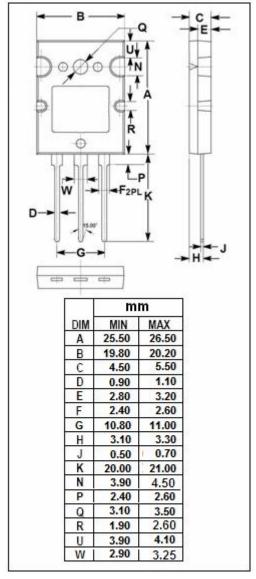


- · Power amplifier applications
- Recommend for 100W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-230	V
Vceo	Collector-Emitter Voltage	-230	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current-Continuous	-15	Α
lв	Base Current-Continuous	-1.5	А
Pc	Collector Power Dissipation @ T_C =25 $^{\circ}$ C	150	W
Тл	Junction Temperature 150		℃
T _{stg}	Storage Temperature Range	-55~150	${\mathbb C}$







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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	-230			V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = -8.0A; I _B = -0.8A			-3.0	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = -7A; V _{CE} = -5V			-1.5	V
Ісво	Collector Cutoff Current	V _{CB} = -230V; I _E = 0			-5	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5	μА
h _{FE-1}	DC Current Gain	I _C = -1A; V _{CE} = -5V	55		160	
h _{FE-2}	DC Current Gain	Ic= -7A; V _{CE} = -5V	35			
Сов	Output Capacitance	I _E =0; V _{CB} = -10V; f= 1.0MHz		1100		pF
f⊤	Current-Gain—Bandwidth Product	I _C =-1A ; V _{CE} = -5V		16		MHz

♦ h_{FE-1} Classifications

R	0
55-110	80-160



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