

isc Silicon PNP Power Transistor

2SA1943

DESCRIPTION

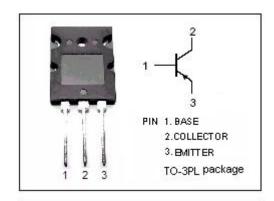
- · High Current Capability
- High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}=- 230V(Min)
- Complement to Type 2SC5200
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

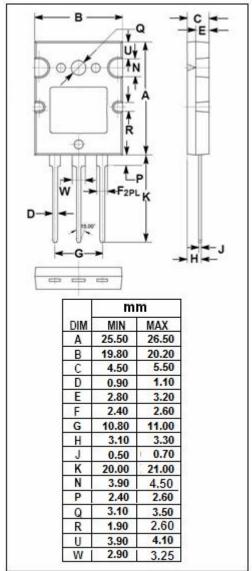
APPLICATIONS

- · 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 _{CEO}	Collector-Emitter Voltage -230			
V _{EBO}	Emitter-Base Voltage -5			
Ic	Collector Current-Continuous -15		А	
I _B	Base Current-Continuous -1.5		А	
Pc	Collector Power Dissipation @ T _C =25℃ 150		W	
TJ	Junction Temperature	150	$^{\circ}$ C	
T _{stg}	Storage Temperature Range	Range -55~150		







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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	Ic= -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	μ Α
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0			-5	μ Α
h _{FE-1}	DC Current Gain	Ic= -1A; VcE= -5V	55		160	
h _{FE-2}	DC Current Gain	Ic= -7A; VcE= -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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