

isc Silicon NPN Power Transistor

2SC5200

DESCRIPTION

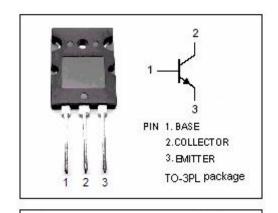
- · High Current Capability
- High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 230V(Min)
- · Complement to Type 2SA1943
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

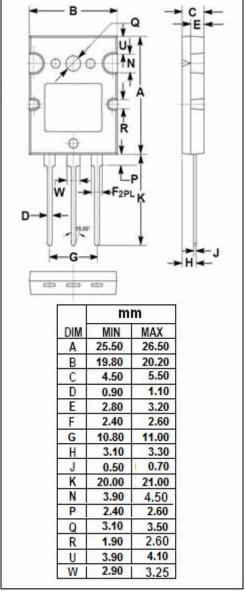


- · Power amplifier applications
- Recommend for 100W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	230	V
V _{CEO}	Collector-Emitter Voltage	230	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current-Continuous	А	
lв	Base Current-Continuous 1.5		А
Pc	ollector Power Dissipation 2 T _C =25°C 150		W
TJ	Junction Temperature	150	$^{\circ}$
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	230			٧
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 A
ІЕВО	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μ A
h _{FE-1}	DC Current Gain	I _C = 1A; V _{CE} = 5V	55		160	
h _{FE-2}	DC Current Gain	I _C = 7A; V _{CE} = 5V	35			
СОВ	Output Capacitance	I _E =0 ; V _{CB} = 10V;f= 1.0MHz		200		pF
f⊤	Current-Gain—Bandwidth Product	I _C =1A ; V _{CE} = 5V		30		MHz

♦ h_{FE-1} Classifications

R	0
55-110	80-160

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