

isc Silicon NPN Power Transistor

2SC5200N

DESCRIPTION

- High Current Capability
- · High Power Dissipation
- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 230V(Min)
- · Complement to Type 2SA1943N
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

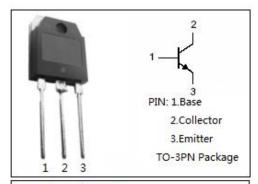


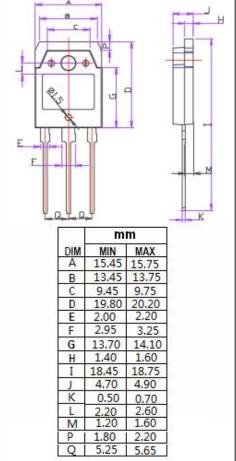
APPLICATIONS

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



SYMBOL	PARAMETER	VALUE	UNIT
V _{СВО}	Collector-Base Voltage	230	٧
V _{CEO}	Collector-Emitter Voltage	230	V
V _{EBO}	Emitter-Base Voltage	5	٧
lc	Collector Current-Continuous	15	Α
I _B	Base Current-Continuous	1.5	Α
Pc	Collector Power Dissipation @ T_c =25 $^{\circ}$ C	150	W
TJ	Junction Temperature	150	$^{\circ}$ 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 = 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
I _{CBO}	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	80		160	
h _{FE-2}	DC Current Gain	Ic= 7A; Vc== 5V	35			

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