

INCHANGE SEMICONDUCTOR

isc Silicon NPN Power Transistor

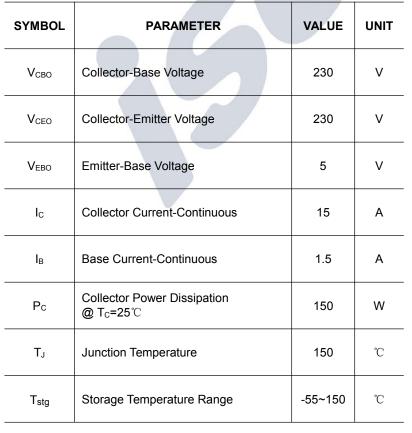
2SC5200

DESCRIPTION

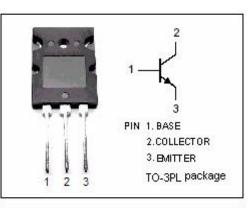
- High Current Capability
- High Power Dissipation
- High Collector-Emitter Breakdown Voltage-: V_{(BR)CEO}= 230V(Min)
- Complement to Type 2SA1943
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

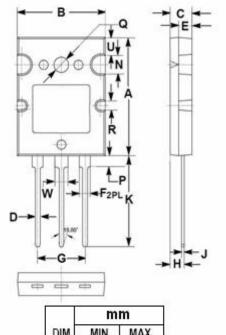
APPLICATIONS

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



ABSOLUTE MAXIMUM RATINGS(Ta=25℃)





DIM	MIN	MAX
Α	25.50	26.50
В	19.80	20.20
C	4.50	5.50
D	0.90	1.10
E	2.80	3.20
F	2.40	2.60
G	10.80	11.00
H	3.10	3.30
J	0.50	0.70
K	20.00	21.00
N	3.90	4.50
P	2.40	2.60
Q	3.10	3.50
R	1.90	2.60
U	3.90	4.10
W	2.90	3.25

isc website: <u>www.iscsemi.com</u>



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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25\,^\circ\!\!\!\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	МАХ	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	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0			5	μA
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			

h_{FE-1} Classifications

R	0			
55-110	80-160			

NOTICE:

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