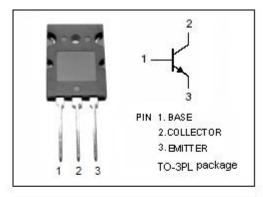


isc Silicon NPN Power Transistor

TTC5200

DESCRIPTION

- · High Collector-Emitter Breakdown Voltage-
 - : V_{(BR)CEO}= 230V(Min)
- Complement to Type TTA1943
- Minimum Lot-to-Lot variations for robust device performance and reliable operation.



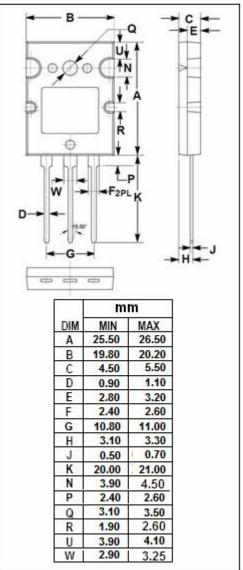
APPLICATIONS



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

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT	
V _{СВО}	Collector-Base Voltage	230	V	
V _{CEO}	Collector-Emitter Voltage	230	V	
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	$^{\circ}$	
T _{stg}	Storage Temperature Range	-55~150	°C	





isc Silicon NPN Power Transistor

TTC5200

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	80		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	240			pF
f⊤	Current-Gain—Bandwidth Product	Ic=1A; VcE= 5V		30		MHz

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