

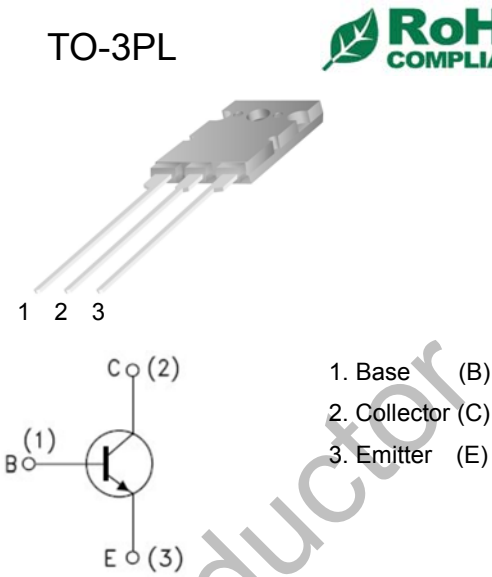
WGC5200

Audio Power Amplifier

Features:

- High Current Capability: $I_C=15A$
- High Power Dissipation
- Extended Safe Operating Area.
- PNP Transistor
- Complement to WGA1943
- 100% Avalanche Tested

TO-3PL



1 2 3

1. Base (B)
2. Collector (C)
3. Emitter (E)

Absolute Maximum Ratings* ($T_C=25^\circ\text{C}$ Unless otherwise noted)

Symbol	PARAMETER	Value	Unit
BV_{CBO}	Collector-Base Voltage	230	V
BV_{CEO}	Collector-Emitter Voltage	230	V
$BVEBO$	Emitter-Base Voltage	5	V
I_C	Collector Current	15	A
I_B	Base Current	1.5	A
P_D	Total Device Dissipation($T_C=25^\circ\text{C}$)	150	W
	Derate above 25°C	1.04	W/ $^\circ\text{C}$
$R_{\theta JC}$	Thermal Resistance, Junction to Case (Max.)	0.83	$^\circ\text{C}/\text{W}$
T_j, T_{stg}	Junction and Storage Temperature	-40~+150	$^\circ\text{C}$

Electrical Characteristics* ($T_C=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C=5\text{mA}, I_E=0$	230	-	-	V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C=10\text{mA}, R_{BE}=\infty$	230	-	-	V
$BVEBO$	Emitter-Base Breakdown Voltage	$I_E=5\text{mA}, I_C=0$	5	-	-	V
I_{CBO}	Collector Cut-off Current	$V_{CB}=230\text{V}, I_E=0$	-	-	5	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB}=5\text{V}, I_C=0$	-	-	5	μA
$h_{FE(1)}$	DC Current Gain	$V_{CE}=5\text{V}, I_C=1\text{A}$	55	-	160	-
$h_{FE(2)}$	DC Current Gain	$V_{CE}=5\text{V}, I_C=7\text{A}$	35	60	-	-
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=8\text{A}, I_B=0.8\text{A}$	-	0.4	3	V
$V_{EB(sat)}$	Base-Emitter On Voltage	$V_{CE}=5\text{V}, I_C=7\text{A}$	-	1.0	1.5	V
fT	Current Gain Bandwidth Product	$V_{CE}=5\text{V}, I_C=1\text{A}$	-	30	-	MHz
C_{OB}	Output Capacitance	$V_{CE}=10\text{V}, f=1\text{MHz}$	-	200	-	pF

Classification Of h_{FE}

Classification	R	O
$h_{FE(1)}$	55-110	80-160

* Pulse Test: Pulse Width=20 μs , Duty Cycle $\leq 2\%$

Typical Characteristics

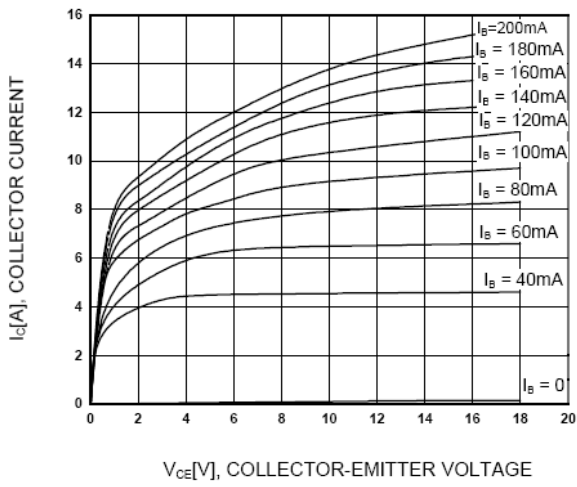


Figure 1. Static Characteristic

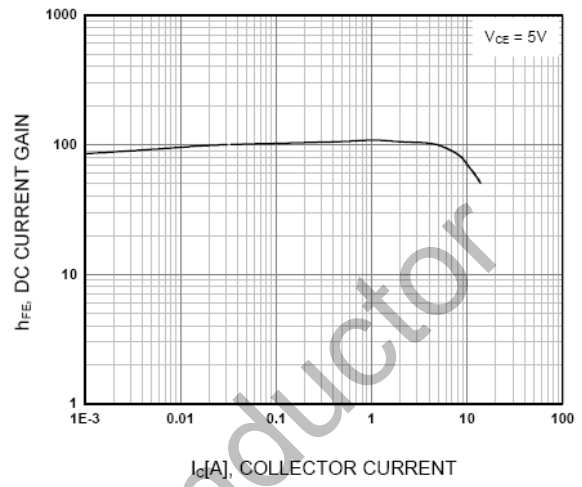


Figure 2. DC current Gain

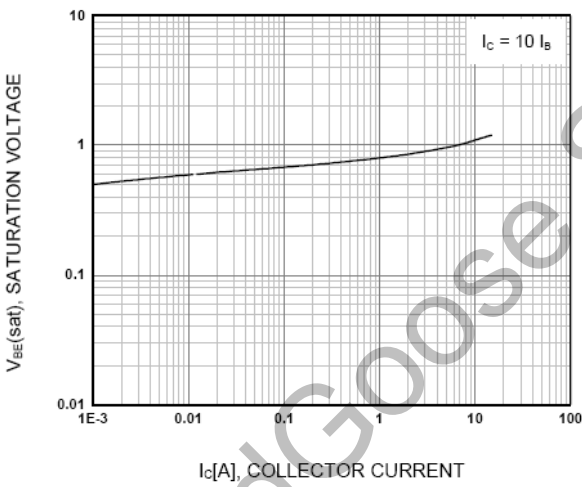


Figure 3. Base-Emitter Saturation Voltage

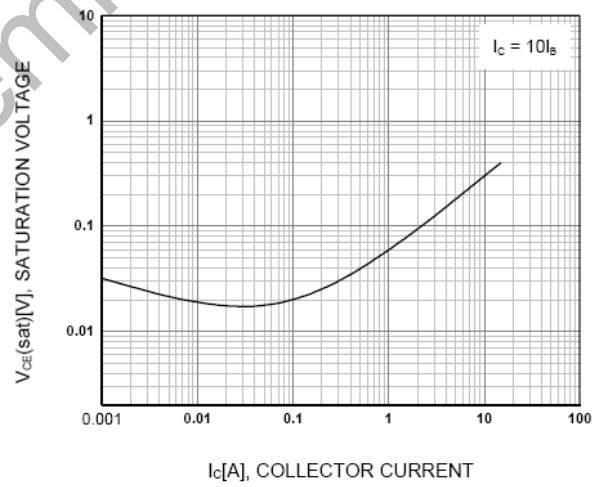


Figure 4. Collector-Emitter Saturation Voltage

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