



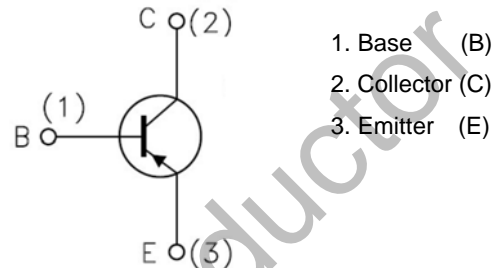
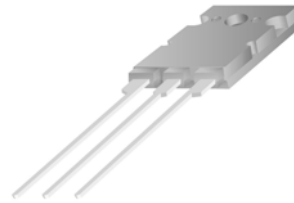
## WGA1943

Audio Power Amplifier

## Features:

- High Current Capability:  $I_C = -10A$
- High Power Dissipation
- Extended Safe Operating Area.
- PNP Transistor
- Complement to WGC5200
- 100% Avalanche Tested

TO-3PL

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	
$BVEBO$	Emitter-Base Voltage	-5	
$I_C$	Collector Current	-15	A
$I_B$	Base Current	-1.0	
$P_C$	Total Device Dissipation ( $T_C = 25^\circ\text{C}$ )	100	W
	Derate above $25^\circ\text{C}$	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)

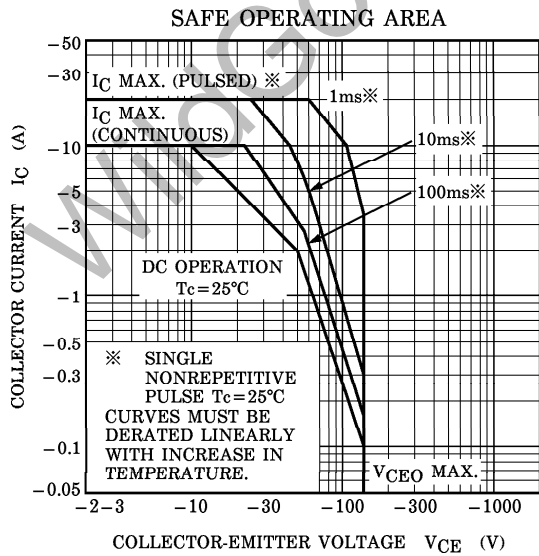
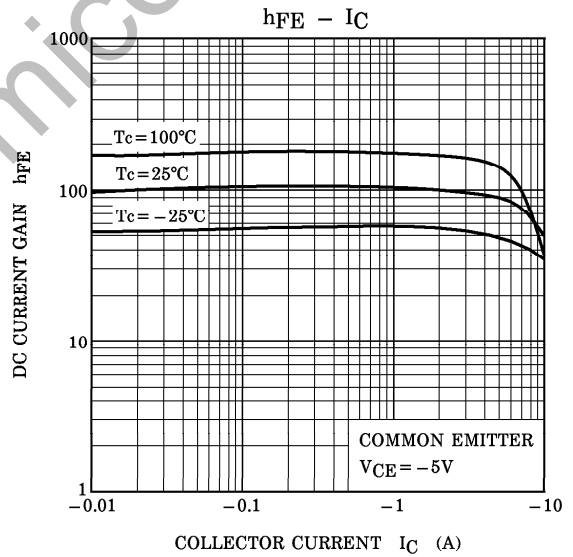
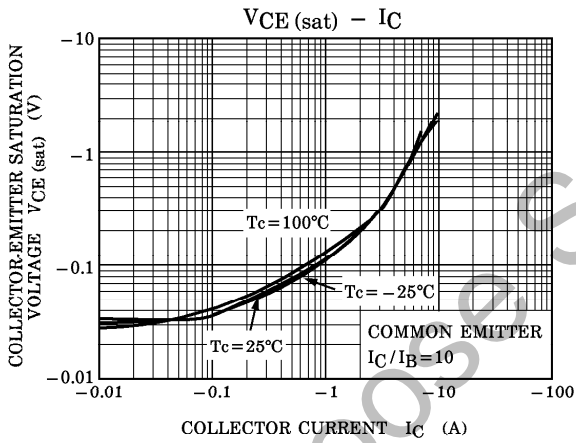
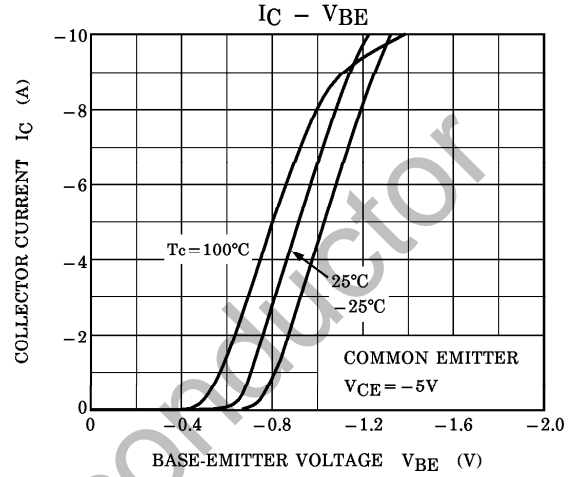
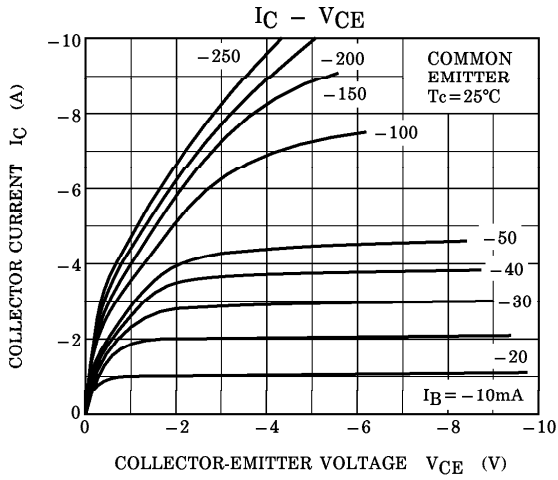
Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
$BV_{CBO}$	Collector-Base Breakdown Voltage	$I_C = -5\text{mA}, I_E = 0$	-230	-	-	V
$BV_{CEO}$	Collector-Emitter Breakdown Voltage	$I_C = -10\text{mA}, R_{BE} = \infty$	-230	-	-	V
$BV_{EBO}$	Emitter-Base Breakdown Voltage	$I_E = -5\text{mA}, I_C = 0$	-5	-	-	V
$I_{CBO}$	Collector Cut-off Current	$V_{CB} = -140\text{V}, I_E = 0$	-	-	-5	$\mu\text{A}$
$I_{EBO}$	Emitter Cut-off Current	$V_{EB} = -5\text{V}, I_C = 0$	-	-	-5	$\mu\text{A}$
$h_{FE(1)}$	DC Current Gain	$V_{CE} = -5\text{V}, I_C = -1\text{A}$	55	-	160	-
$h_{FE(2)}$	DC Current Gain	$V_{CE} = -5\text{V}, I_C = -5\text{A}$	35	80	-	-
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -7\text{A}, I_B = -0.7\text{A}$	-	-0.	-2	V
$V_{EB(sat)}$	Base-Emitter On Voltage	$V_{CE} = -5\text{V}, I_C = -5\text{A}$	-	-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	$V_{CE} = -10\text{V}, f = 1\text{MHz}$	-	170	-	pF

Classification Of  $h_{FE}$ 

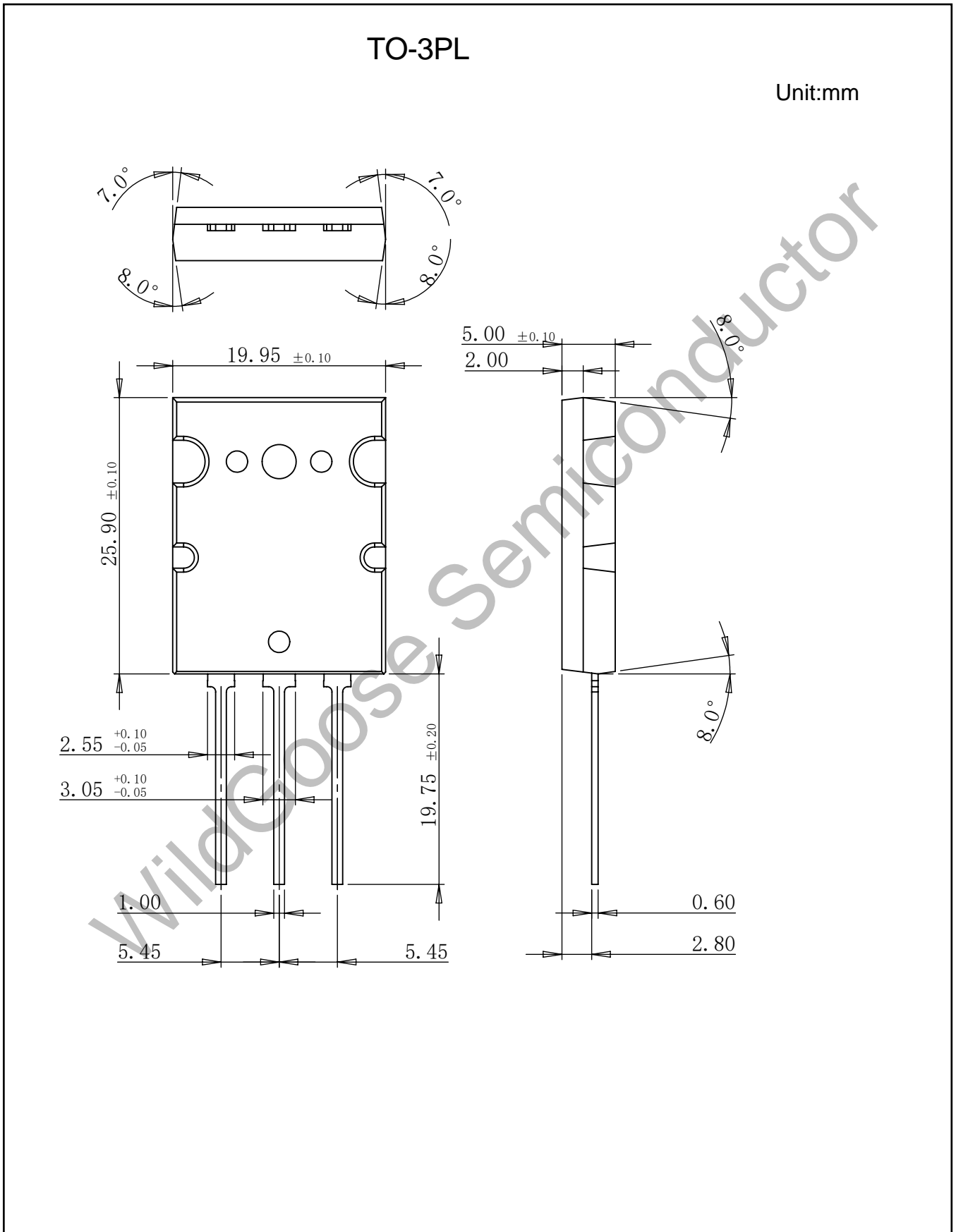
Classification	R	O
$h_{FE(1)}$	55-110	80-160

\* Pulse Test: Pulse Width=20 $\mu\text{s}$ , Duty Cycle  $\leq 2\%$

Typical Characteristics



**Package Dimension**



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