WGA1941

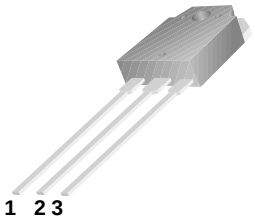
Audio Power Amplifier

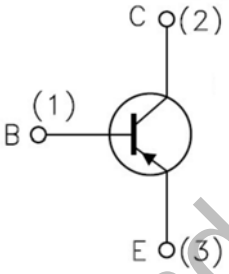
Features:

- ☐ High Current Capability:Ic=-10A
- ☐ High Power Dissipation
- ☐ Extended Safe Operating Area.
- ☐ PNP Transistor
- ☐ Complement to WGC5198
- ☐ 100% Avalanche Tested

TO-3P

RoHS COMPLIANT





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

Absolute Maximum Ratings* (Tc=25℃ Unless otherwise noted)

Symbol	PARAMETER	Value	Unit
BV_{CBO}	Collector-Base Voltage	-140	V
BV_{CEO}	Collector-Emitter Voltage	-140	
BVEBO	Emitter-Base Voltage	-5	
I_C	Collector Current	-10	A
I_B	Base Current	-1.0	
P_D	Total Device Dissipation(TC=25°C) Derate above 25°C	100 1.04	W W/℃
$R_{\theta JC}$	Thermal Resistance, Junction to Case （Max.）	0.83	℃/W
T_j, T_{stg}	Junction and Storage Temperature	-40~+150	℃

Electrical Characteristics* (Tc=25℃ unless otherwise noted)

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Unit
BV_{CBO}	Collector-Base Breakdown Voltage	I_C=-5mA,I_E=0	-140	-	-	V
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_C=-10mA,R_{BE}=∞	-140	-	-	V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E=-5mA,I_C=0	-5	-	-	V
I_{CBO}	Collector Cut-off Current	V_{CB}=-140V，I_E=0	-	-	-5	μA
I_{EBO}	Emitter Cut-off Current	V_{EB}=-5V，I_C=0	-	-	-5	μA
h_{FE}(1)	DC Current Gain	V_{CE}=-5V，I_C=-1A	55	-	160	-
h_{FE}(2)	DC Current Gain	V_{CE}=-5V，I_C=-5A	35	80	-	-
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C=-7A,I_B=-0.7A	-	-0.	-2	V
$V_{EB(sat)}$	Base-Emitter On Voltage	V_{CE}=-5V，I_C=-5A	-	-1.0	-1.5	V
fT	Current Gain Bandwidth Product	V_{CE}=-5V，I_C=-1A	-	30	-	MHz
C_{OB}	Output Capacitance	V_{CE}=-10V，f=1MHz	-	170	-	pF

Classification Of h_{FE}

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

* Pulse Test: Pulse Width=20μs, Duty Cycle≤2%

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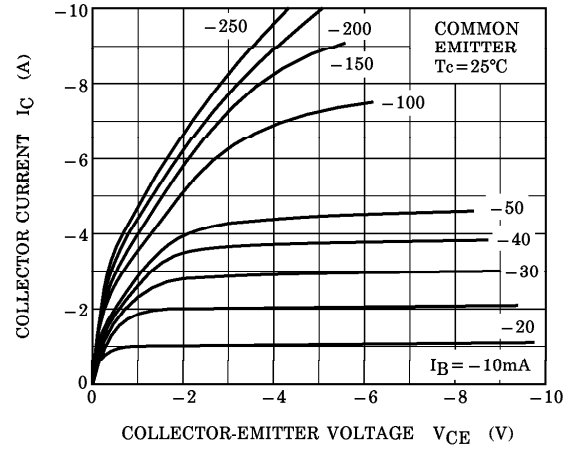
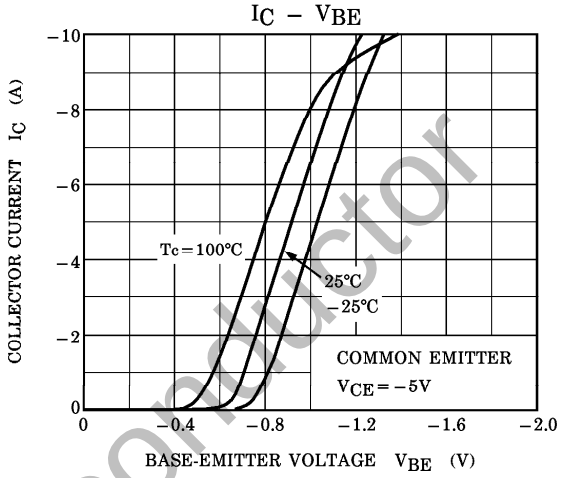
Typical Characteristics

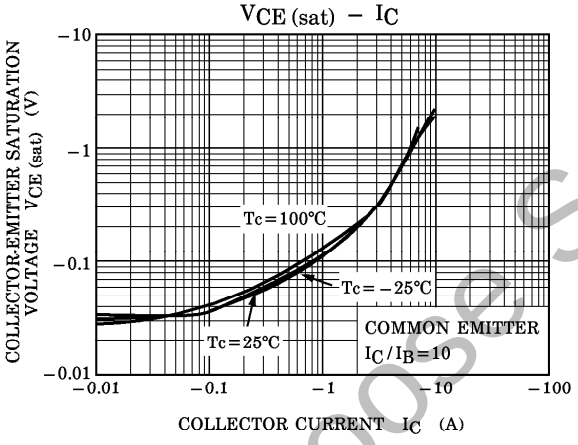
$I_C - V_{CE}$



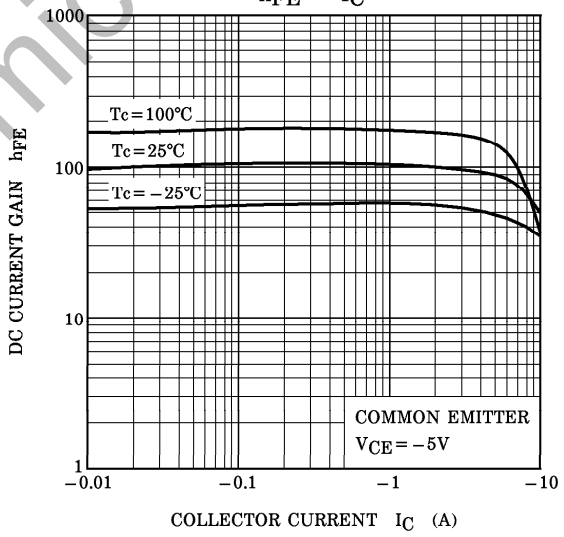
$I_C - V_{BE}$



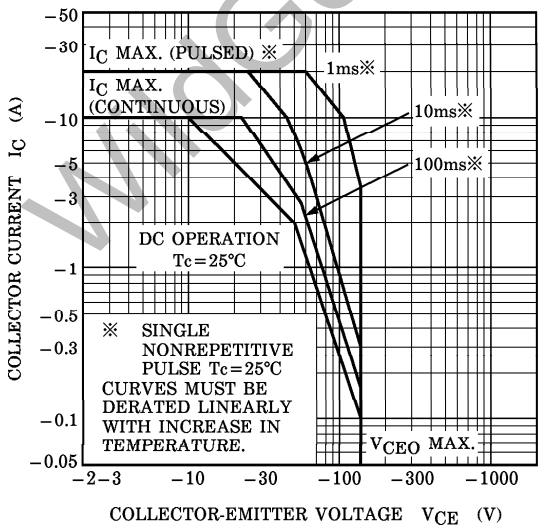
$V_{CE(sat)} - I_C$



$h_{FE} - I_C$



SAFE OPERATING AREA



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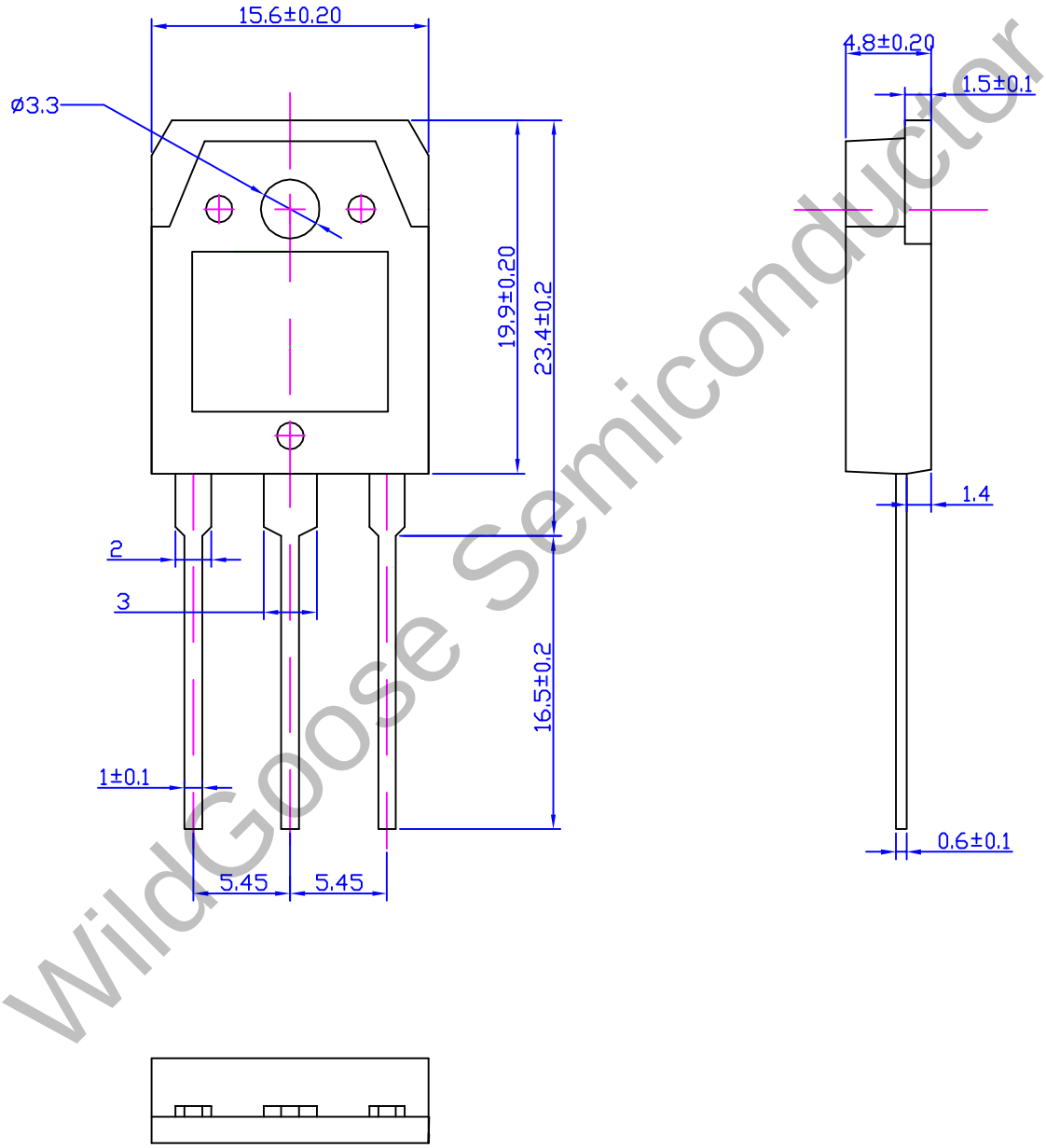
Package Dimension

TO-3P

Unit:mm



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