

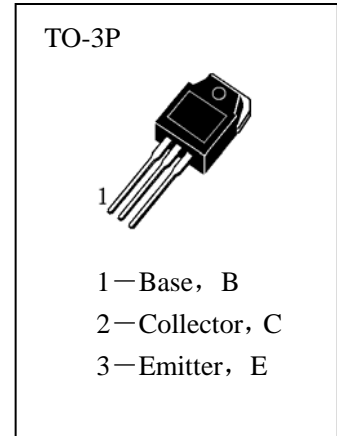


APPLICATIONS

- Power Amplifier Applications.
- Complementary to HC5200.

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

- T<sub>stg</sub>—Storage Temperature..... -65~150°C
- T<sub>j</sub>—Junction Temperature..... 150°C
- P<sub>C</sub>—Collector Dissipation (T<sub>c</sub>=25°C) ..... 150W
- V<sub>CBO</sub>—Collector-Base Voltage..... -230V
- V<sub>CEO</sub>—Collector-Emitter Voltage..... -230V
- V<sub>EBO</sub>—Emitter-Base Voltage..... -5V
- I<sub>C</sub>—Collector Current (DC) ..... -15A
- I<sub>CP</sub>—Collector Current (Pulse) ..... -30A
- I<sub>b</sub>—Base Current..... -1.5A



ELECTRICAL CHARACTERISTICS (Ta=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	-230			V	I <sub>C</sub> =-100 μ A, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	-230			V	I <sub>C</sub> =-50mA, I <sub>B</sub> =0
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	-5			V	I <sub>E</sub> =-100 μ A, I <sub>C</sub> =0
I <sub>CBO</sub>	Collector Cut-off Current			-5	μ A	V <sub>CB</sub> =-230V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			-5	μ A	V <sub>EB</sub> =-5V, I <sub>C</sub> =0
H <sub>FE</sub> (1)	DC Current Gain	55		160		V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A
H <sub>FE</sub> (2)	DC Current Gain	35				V <sub>CE</sub> =-5V, I <sub>C</sub> =-7A
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage		-1.5	-3	V	I <sub>C</sub> =-8A, I <sub>B</sub> =-0.8A
V <sub>BE</sub>	Base-Emitter Voltage			-1.5	V	V <sub>CE</sub> =-5V, I <sub>C</sub> =-7A
f <sub>T</sub>	Current Gain-Bandwidth Product		30		MHz	V <sub>CE</sub> =-5V, I <sub>C</sub> =-1A
C <sub>ob</sub>	Output Capacitance		360		pF	V <sub>CB</sub> =-10V, I <sub>E</sub> =0, f=1MHz

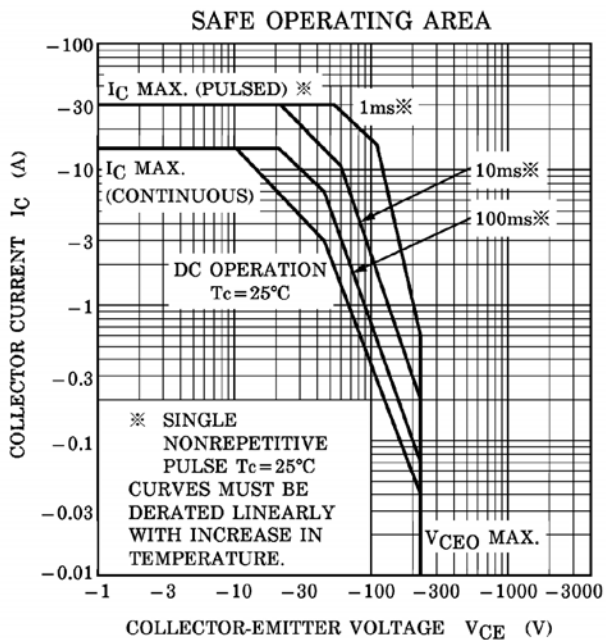
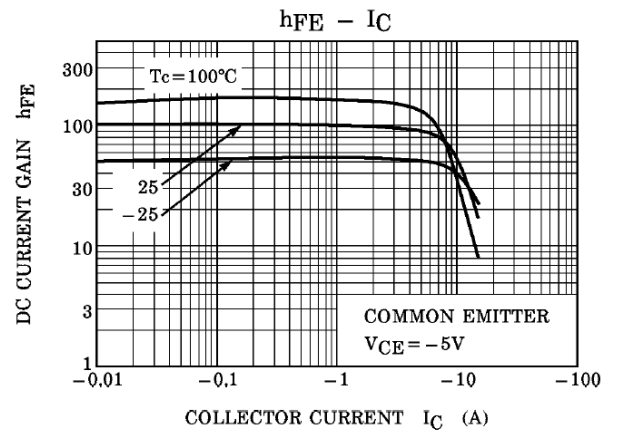
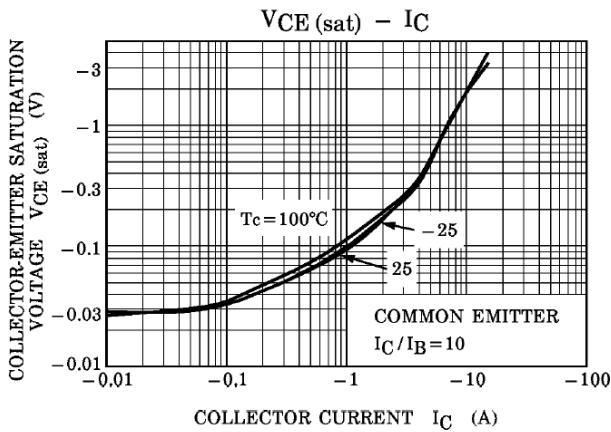
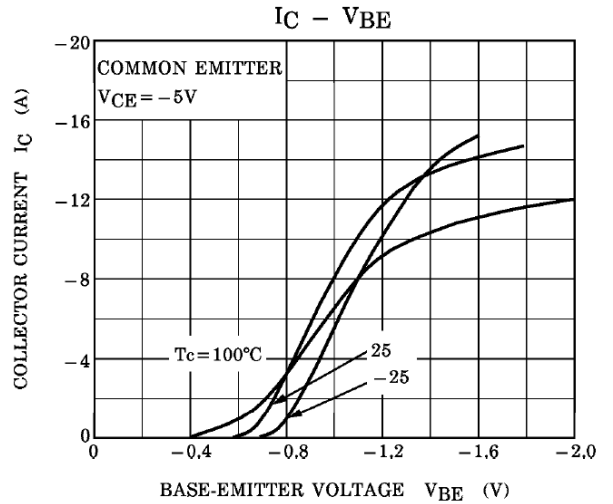
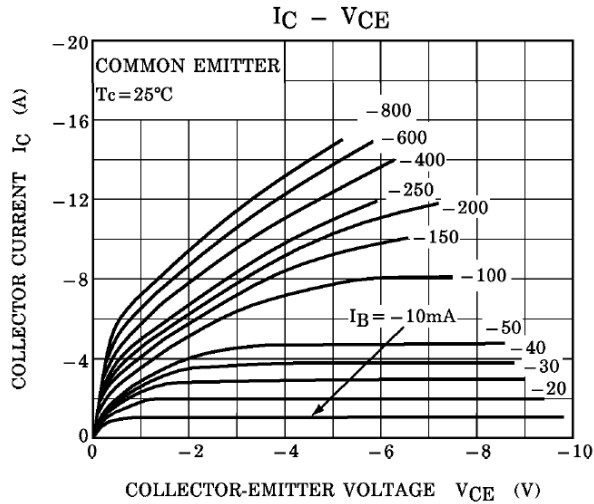
h<sub>FE</sub>(1) Classification

R

O



## Typical Characteristics





■ Package Dimensions

SYMBOL	MILLIMETERS
A (mm)	$15.60 \pm 0.20$
A1 (mm)	$13.60 \pm 0.20$
A2 (mm)	$9.60 \pm 0.20$
B (mm)	$19.90 \pm 0.20$
B1 (mm)	$13.90 \pm 0.20$
B2 (mm)	$12.76 \pm 0.20$
B3 (mm)	$3.80 \pm 0.20$
C (mm)	$20.00 \pm 0.30$
C1 (mm)	$3.50 \pm 0.20$
C2 (mm)	$16.50 \pm 0.30$
D (mm)	5.45 (TYP)
D1 (mm)	$2.0 \pm 0.20$
D2 (mm)	$3.0 \pm 0.20$
D3 (mm)	$1.00 \pm 0.20$
E (mm)	$4.80 \pm 0.20$
E1 (mm)	$1.50 \pm \begin{matrix} +0.15 \\ -0.05 \end{matrix}$
E2 (mm)	$1.40 \pm 0.20$
F (mm)	$18.70 \pm 0.20$
G (mm)	$0.60 \pm \begin{matrix} +0.15 \\ -0.05 \end{matrix}$
$\phi$ (mm)	$3.20 \pm 0.10$

