

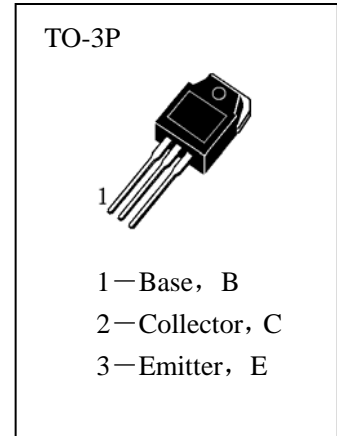


APPLICATIONS

- Power Amplifier Applications.
- Complementary to HA1962.

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) ..... 130W
- V<sub>CB0</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>CB0</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		0.4	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		200		pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz

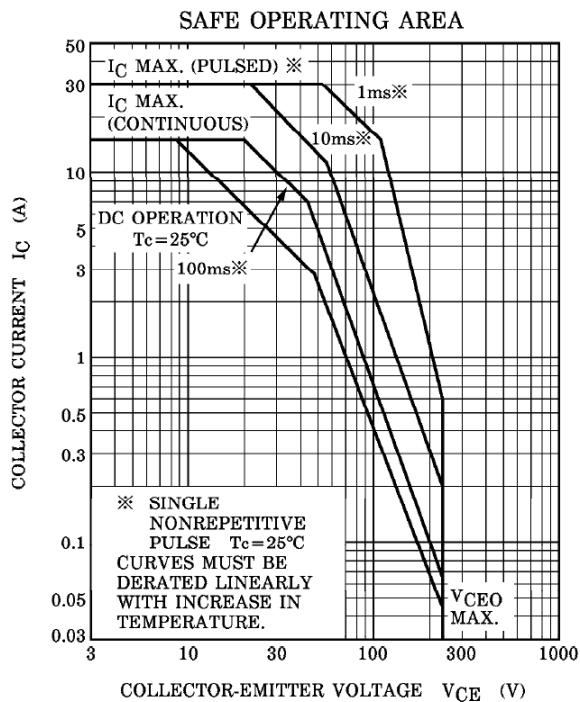
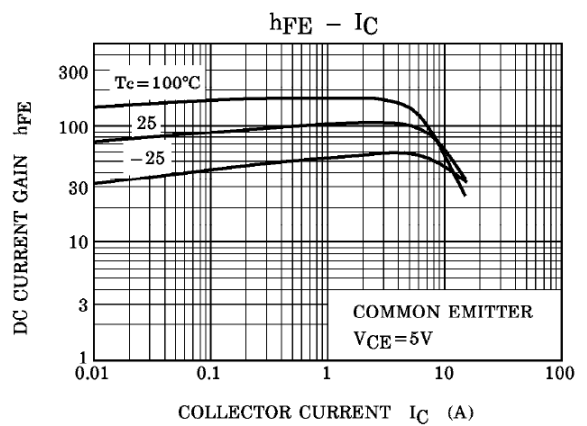
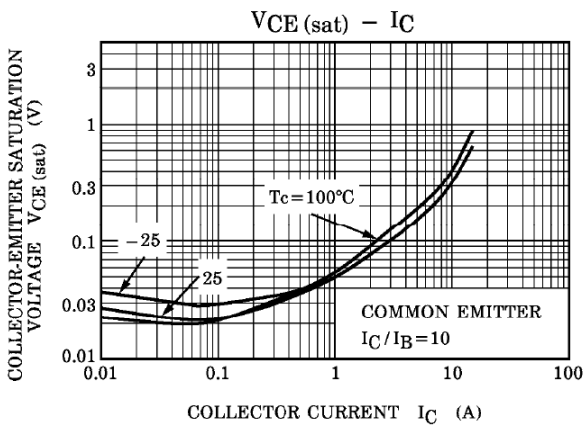
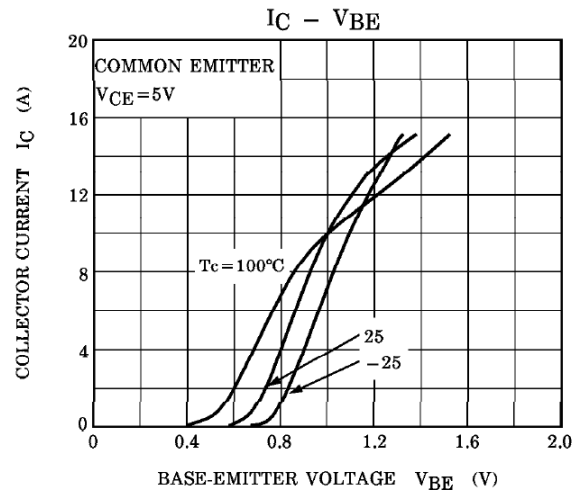
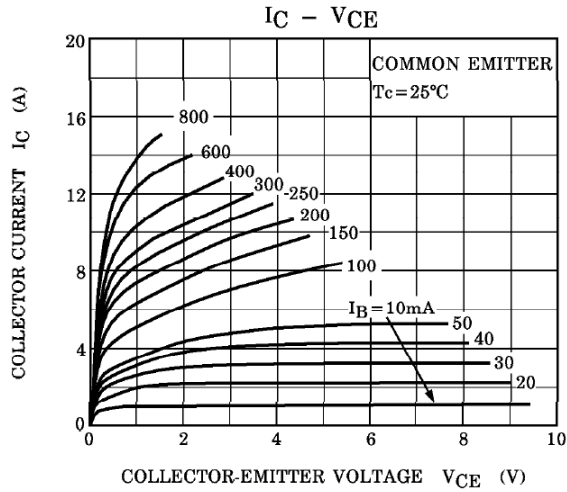
h<sub>FE</sub>(1) Classification

R

O



### Typical Characteristics





Package Dimensions

SYMBOL	MILLIMETERS
A (mm)	15.60±0.20
A1 (mm)	13.60±0.20
A2 (mm)	9.60±0.20
B (mm)	19.90±0.20
B1 (mm)	13.90±0.20
B2 (mm)	12.76±0.20
B3 (mm)	3.80±0.20
C (mm)	20.00±0.30
C1 (mm)	3.50±0.20
C2 (mm)	16.50±0.30
D (mm)	5.45 (TYP)
D1 (mm)	2.0±0.20
D2 (mm)	3.0±0.20
D3 (mm)	1.00±0.20
E (mm)	4.80±0.20
E1 (mm)	1.50± <sup>+0.15</sup> / <sub>-0.05</sub>
E2 (mm)	1.40±0.20
F (mm)	18.70±0.20
G (mm)	0.60 <sup>+0.15</sup> / <sub>-0.05</sub>
φ (mm)	3.20±0.10

