



■ APPLICATIONS

- Power Amplifier Applications.
- Complementary to HC5242.

■ ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

T_{stg}—Storage Temperature..... -65~150°C

T_j—Junction Temperature..... 150°C

P_C—Collector Dissipation (T_c=25°C) 130W

V_{CBO}—Collector-Base Voltage..... -230V

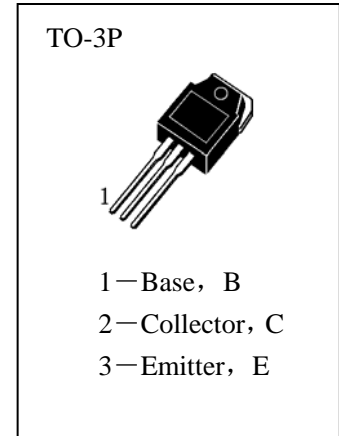
V_{CEO}—Collector-Emitter Voltage..... -230V

V_{EBO}—Emitter-Base Voltage..... -5V

I_C—Collector Current (DC) -15A

I_{CP}—Collector Current (Pulse) -30A

I_b—Base Current..... -1.5A



■ ELECTRICAL CHARACTERISTICS (T_a=25°C)

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

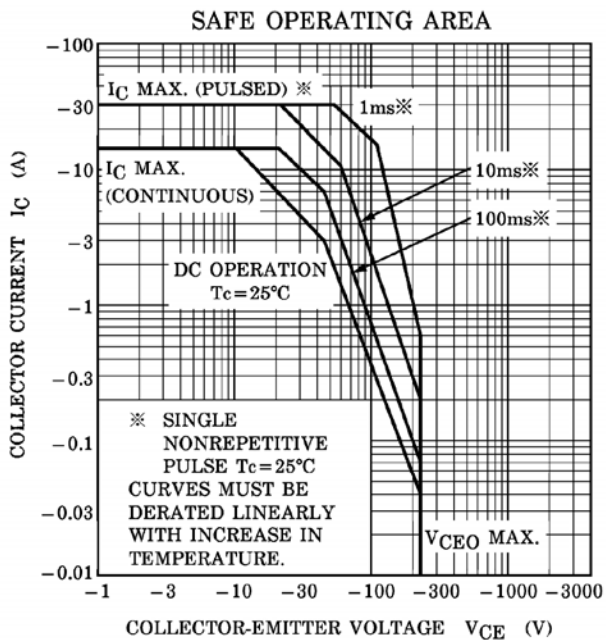
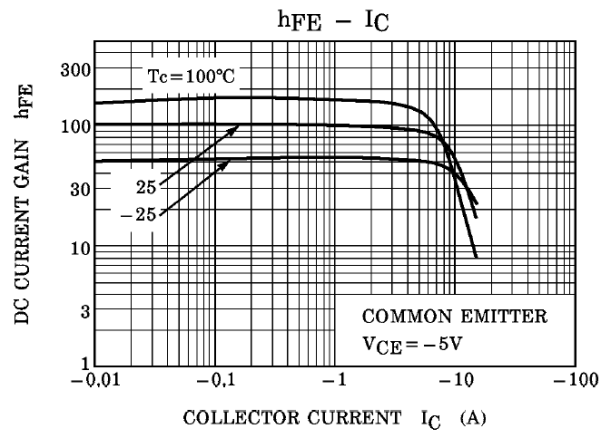
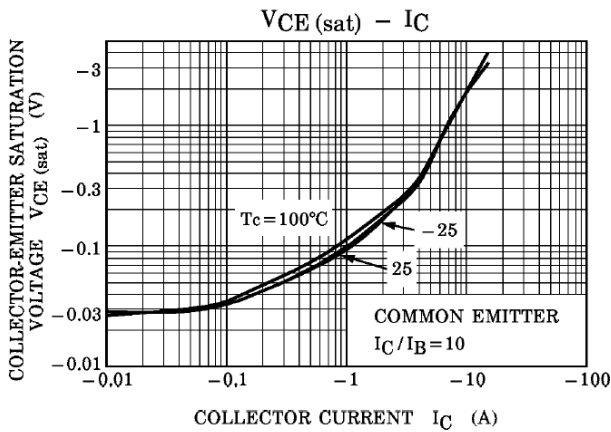
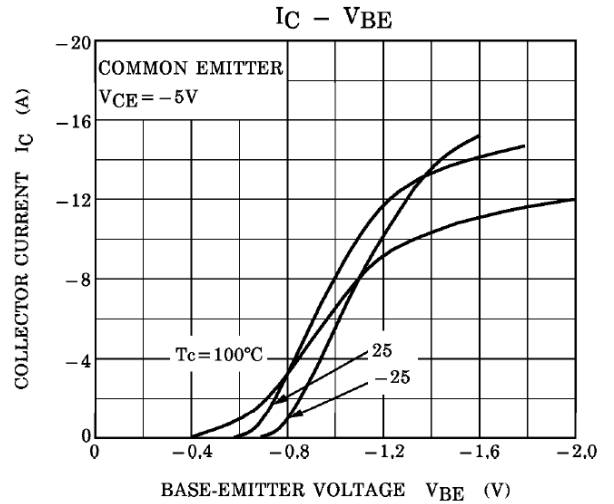
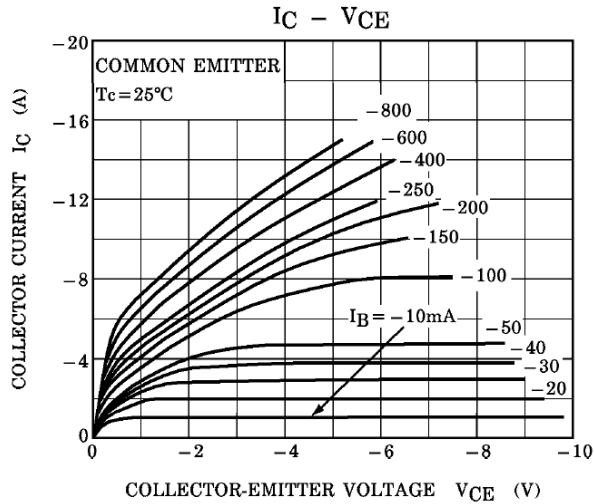
■ h_{FE}(1) Classification

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)	$1.50 \pm \begin{matrix} +0.15 \\ -0.05 \end{matrix}$
E2 (mm)	1.40 ± 0.20
F (mm)	18.70 ± 0.20
G (mm)	$0.60 \pm \begin{matrix} +0.15 \\ -0.05 \end{matrix}$
ϕ (mm)	3.20 ± 0.10

