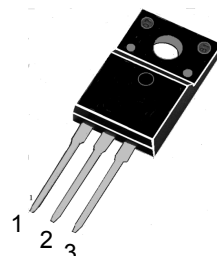


Applications

- Power Amplifier Applications
- Driver Stage Amplifier Applications
- Complementary to 2SA1930

ITO-220AB



1. Base 2. Collector 3. Emitter

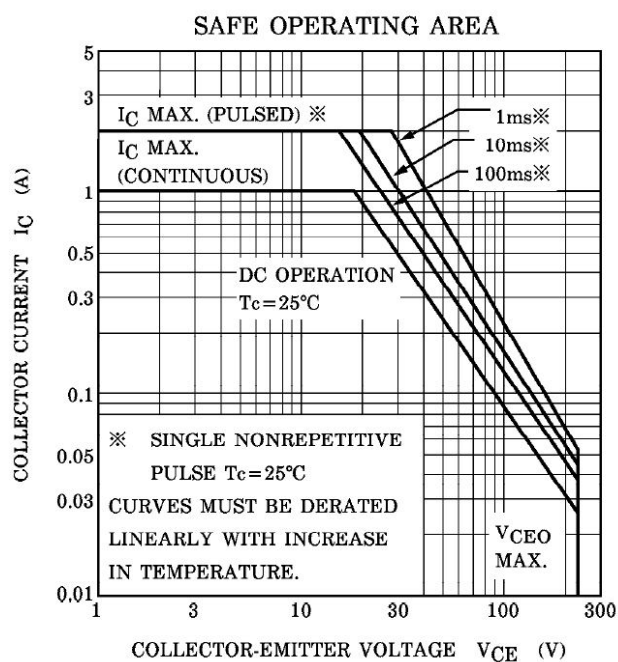
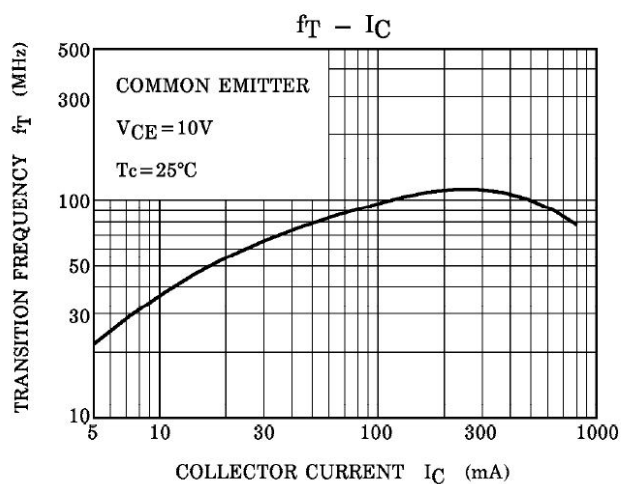
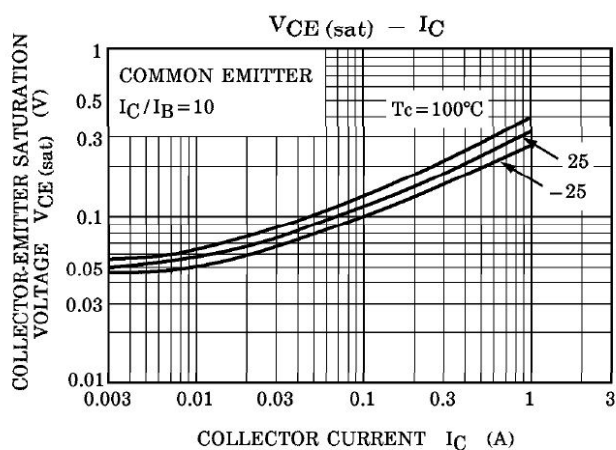
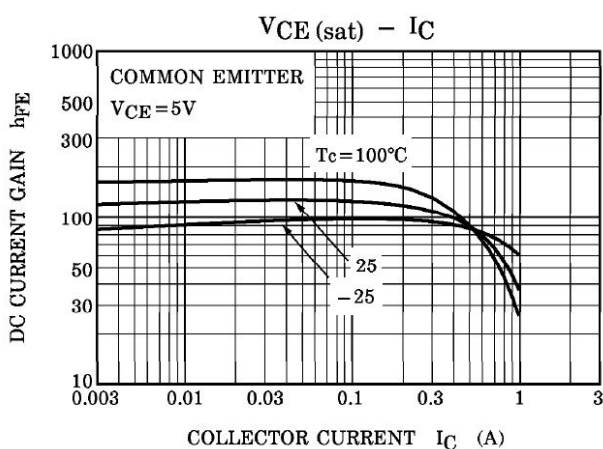
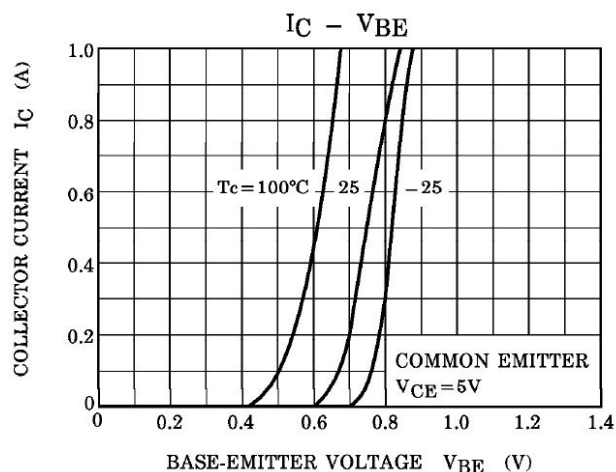
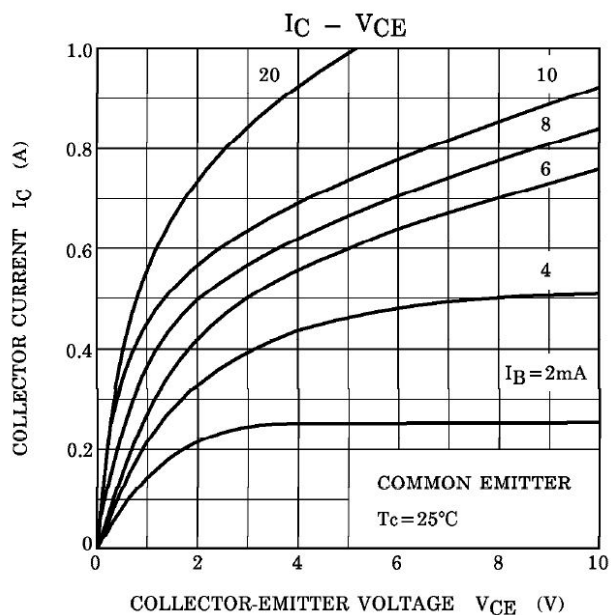
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Units
Collector-Base Voltage	V_{CBO}	180	V
Collector-Emitter Voltage	V_{CEO}	180	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current (DC)	I_C	2	A
Base Current	I_B	1	A
Collector Power Dissipation $T_c=25^{\circ}\text{C}$ $T_a=25^{\circ}\text{C}$	P_C	20 2	W
Junction Temperature	T_j	150	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-55-150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	BV_{CBO}	$I_C=10\text{mA}$, $I_E=0$	180			V
Collector-emitter breakdown voltage	BV_{CEO}	$I_C=10\text{mA}$, $I_B=0$	180			V
Emitter-base breakdown voltage	BV_{EBO}	$I_E=10\text{mA}$, $I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=180\text{V}$, $I_E=0$			5	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$			5	μA
DC current gain	h_{FE}	$V_{CE}=5\text{V}$, $I_C=100\text{mA}$	100		320	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=1\text{A}$, $I_B=0.1\text{A}$			1.0	V
Base-emitter voltage	V_{BE}	$V_{CE}=5\text{V}$, $I_C=1\text{A}$			1.5	V
Transition frequency	f_T	$V_{CE}=5\text{V}$, $I_C=300\text{mA}$		200		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_C=0$, $f=1\text{MHz}$		16		pF

TYPICAL CHARACTERISTIC



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