

2SA1013

TO-92L Transistor (PNP)

TO-92L



1. EMITTER
2. COLLECTOR
3. BASE

Features

- ✧ High voltage: $V_{CE0} = -160V$
- ✧ Large continuous collector current capability
- ✧ Complementary to 2SC2383

MAXIMUM RATINGS ($T_A = 25^\circ C$ unless otherwise noted)

Dimensions in inches and (millimeters)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-160	V
V_{CEO}	Collector-Emitter Voltage	-160	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-1	A
P_C	Collector Power Dissipation	0.9	W
T_j	Junction Temperature	150	$^\circ C$
T_{stg}	Storage Temperature	-55 to +150	$^\circ C$

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

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-160		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-160		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-6		V
Collector cut-off current	I_{CBO}	$V_{CB} = -150V, I_E = 0$		-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -6V, I_C = 0$		-1	μA
DC current gain	h_{FE}	$V_{CE} = -5V, I_C = -200mA$	60	300	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = -500mA, I_B = -50mA$		-1.5	V
Base-emitter voltage	V_{BE}	$I_C = -5mA, V_{CE} = -5V$		-0.75	V
Transition frequency	f_T	$V_{CE} = -5V, I_C = -200mA$	15		MHz
Collector Output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		35	pF

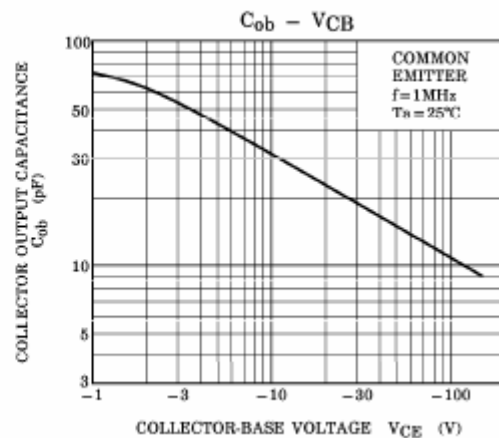
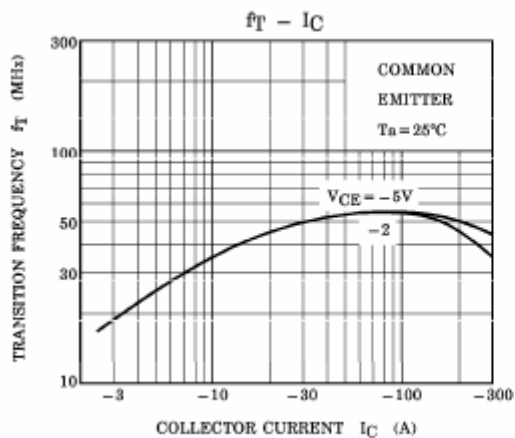
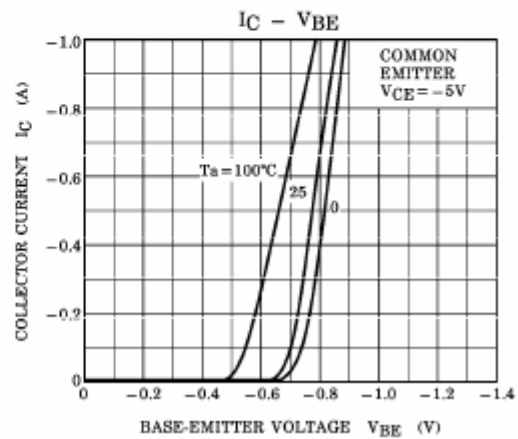
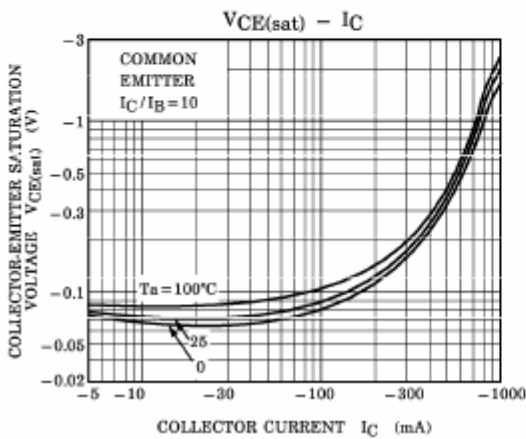
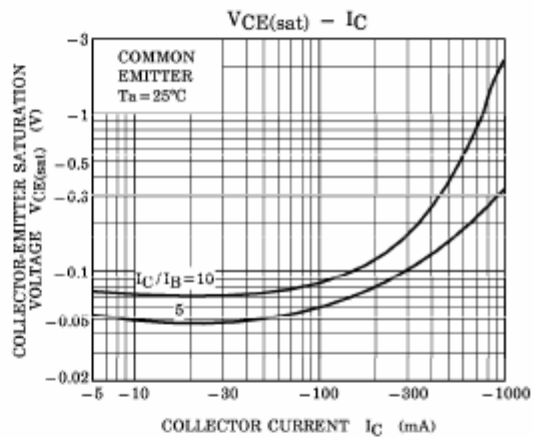
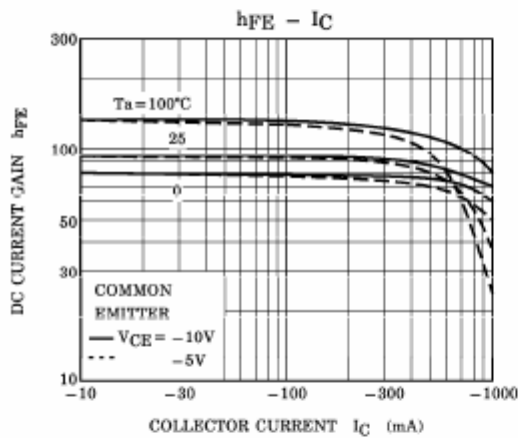
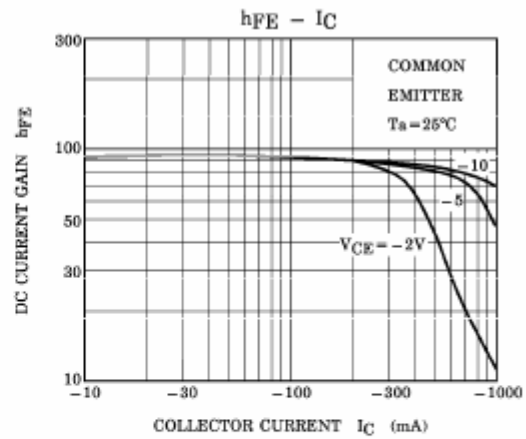
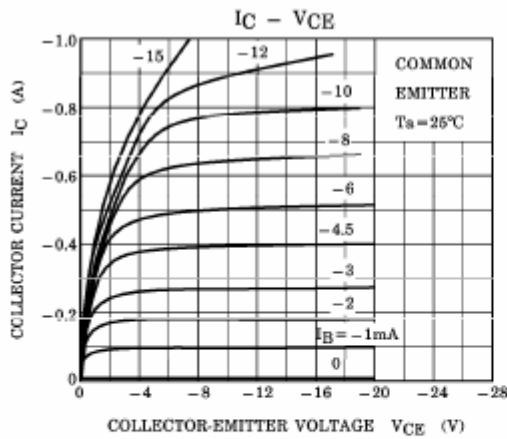
CLASSIFICATION OF h_{FE}

Rank	R	O	Y
Range	60-120	100-200	200-300

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Typical characteristics



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