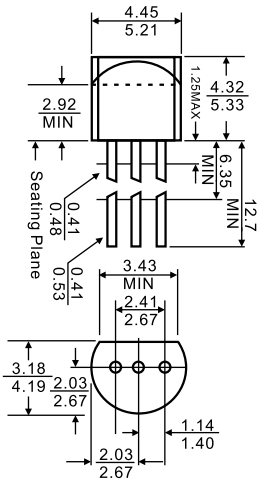
2SA1300

TO-92 Bipolar Transistors(PNP)

1. EMITTER
2. COLLECTOR
3. BASE

TO-92



Dimensions in inches and (millimeters)

Features

- ✧ High DC Current gain and excellent h_{FE} linearity
- ✧ Low saturation voltage

MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-20	V
V_{CEO}	Collector-Emitter Voltage	-10	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current -Continuous	-2	A
P_C	Collector Power Dissipation	0.75	W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55 to +150	℃

ELECTRICAL CHARACTERISTICS (Tamb=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-1mA , I_E=0	-20			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-10mA , I_B=0	-10			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-1mA, I_C=0	-6			V
Collector cut-off current	I_{CBO}	V_{CB}=-20 V , I_E=0			-0.1	μA
Emitter cut-off current	I_{EBO}	V_{EB}=-6 V , I_C=0			-0.1	μA
DC current gain	h_{FE}	V_{CE}=-1V, I_C=-0.5A	140		600	
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-2A, I_B= -100mA			-0.82	V
Base-emitter voltage	V_{BE}	I_C= -2A, V_{CE}=-1V			-1.5	V
Transition frequency	f_T	V_{CE}=-1V, I_C= -0.5A f = 30MHz		140		MHz
Collector Output Capacitance	Cob	V_{CB}=-10V,IE=0 f=1MHZ		50		pF

CLASSIFICATION OF h_{FE}

Rank	Y	GR	BL
Range	140-280	200-400	300-600

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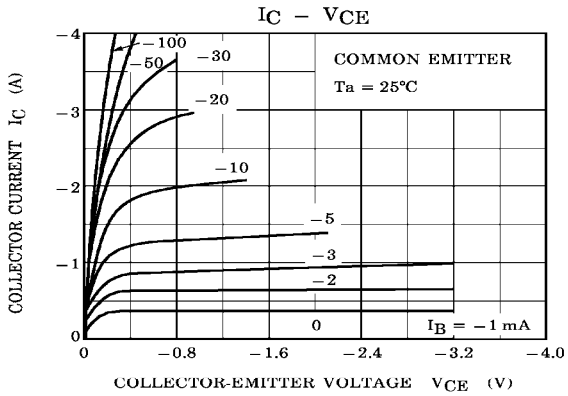
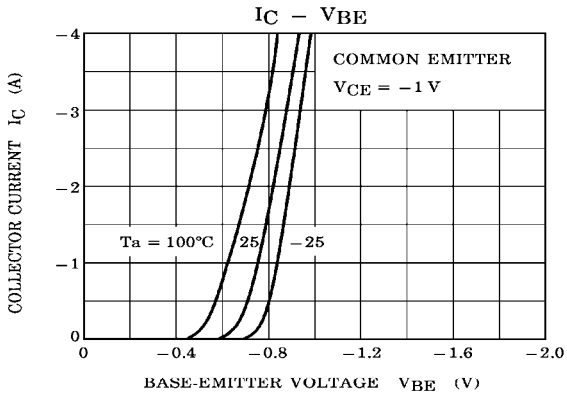
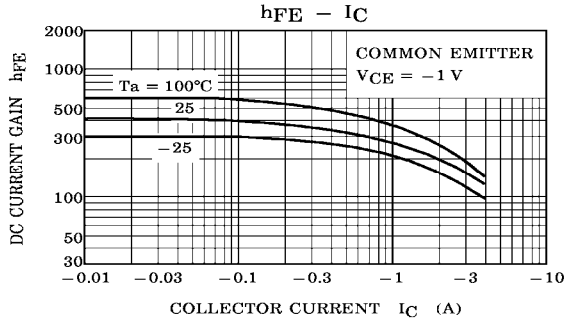
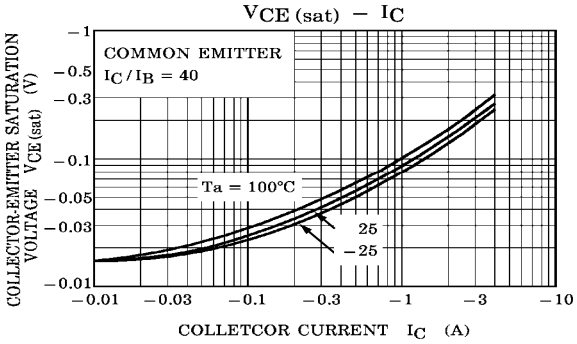
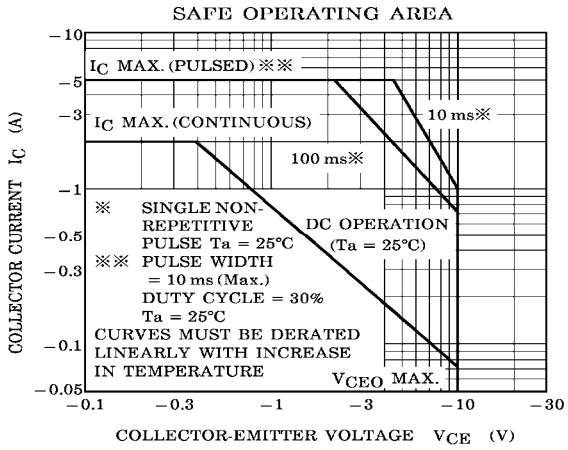
Typical Characteristics

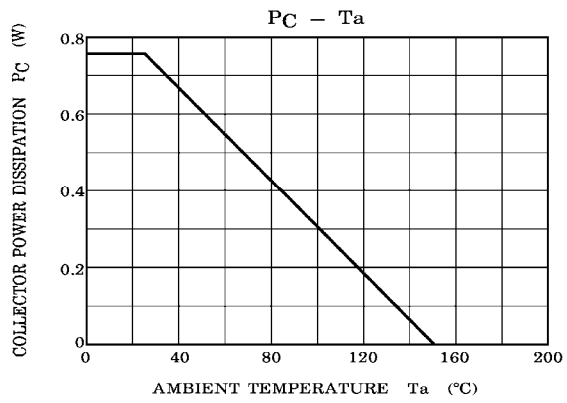












Package	Box	Box Size(mm)	Carton	Carton Size(mm)
TO-92	2000pcs	333×162×43	20,000pcs	350×340×250