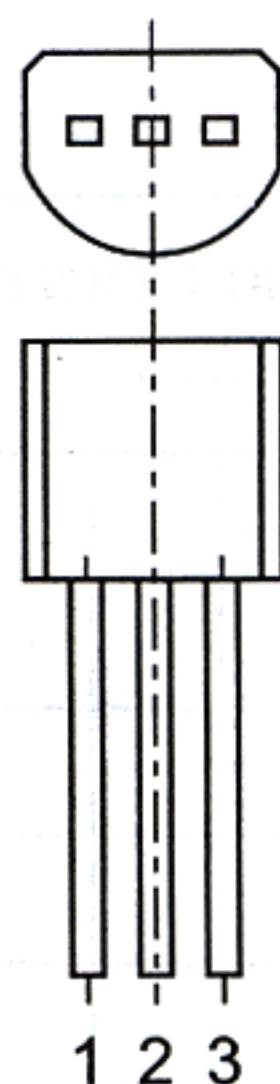


2SA1300 TRANSISTOR(PNP)



TO-92

1.EMITTER

2.COLLECTOR

3.BASE

FEATURES

Power dissipation

P_{CM} : 0.75W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : -2 A

Collector-base voltage

$V_{(BR)CBO}$: -20 V

Operating and storage junction temperature range

T_{stg} : $-55^{\circ}C$ to $+150^{\circ}C$

T_J : $150^{\circ}C$

ELECTRICAL CHARACTERISTICS

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

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

CLASSIFICATION OF h_{FE}

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

Typical Characteristics

2SA1300

