

FEATURES

High voltage and high current
 Excellent hFE Linearity
 Low noise ,Complementary to C1815

2SA1015(PNP)

MARKING: BA

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	-50	V
Collector-Emitter Voltage	V _{CEO}	-50	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current -Continuous	I _C	-0.15	A
Collector Power Dissipation	P _C	0.2	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	-55 to +150	°C



ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	VCBO	IC= -100u A, IE=0	-50			V
Collector-emitter breakdown voltage	VCEO	IC= -0.1mA, IB=0	-50			V
Emitter-base breakdown voltage	VEBO	IE= -100 u A, IC=0	-5			V
Collector cut-off current	ICB	VCB=-50V, IE=0			-0.1	u A
Collector cut-off current	ICE	VCE= -50V, IB=0			-0.1	u A
Emitter cut-off current	IEB	VEB=- 5V, IC=0			-0.1	u A
DC current gain	hFE	VCE=-6V, IC= -2mA	130		400	
Collector-emitter saturation voltage	VCE(sat)	IC=-100 mA, IB= -10mA			-0.3	V
Base-emitter saturation voltage	VBE(sat)	IC=-100 mA, IB= -10mA			-1.1	V
Transition frequency	fT	VCE=-10V, IC= -1mA f=30MHz	80			MHz

CLASSIFICATION OF h_{FE}

Rank	L	H
Range	130-200	200-400

2SA1015 Typical Characteristics

