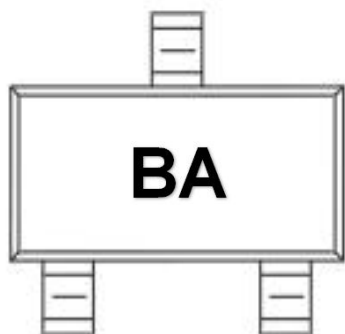
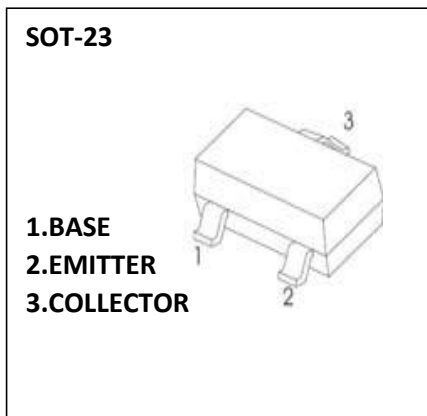
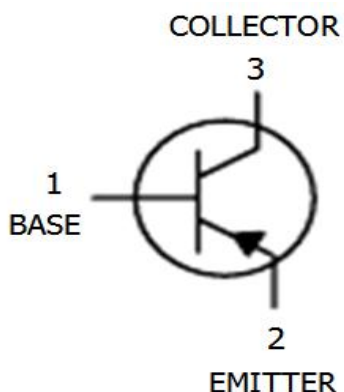


# 2SA1015 TRANSISTOR (PNP)

**MARKING:**



**Equivalent Circuit:**



**FEATURES:**

- ※ High voltage and high current
- ※ Excellent hFE Linearity
- ※ Complementary to C1815

**MAXIMUM RATINGS (Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	-50	V
Collector-Emitter Voltage	VCEO	-50	V
Emitter-Base Voltage	VEBO	-5	V
Collector Current	IC	-150	mA
Collector Power Dissipation	PC	200	mW
Thermal Resistance From Junction To Ambient	ROJA	625	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55~+150	°C

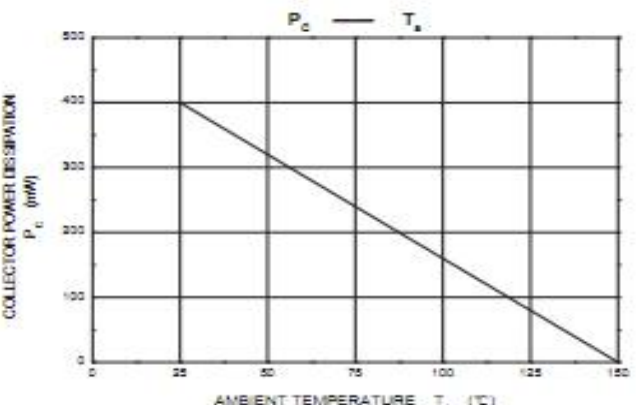
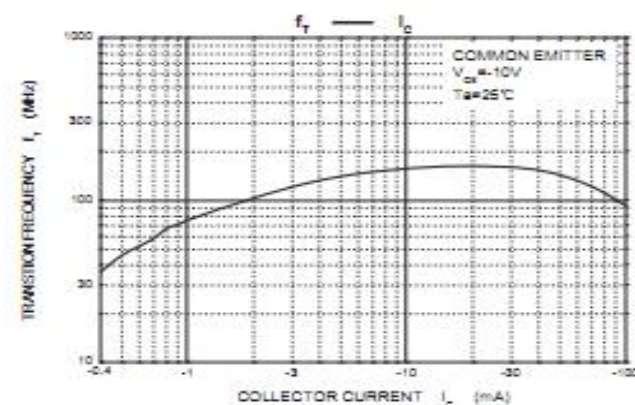
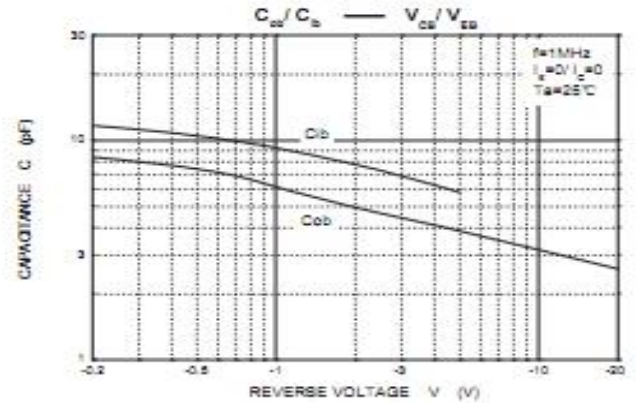
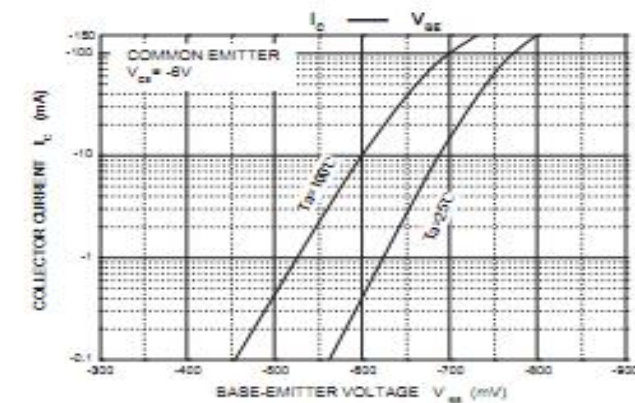
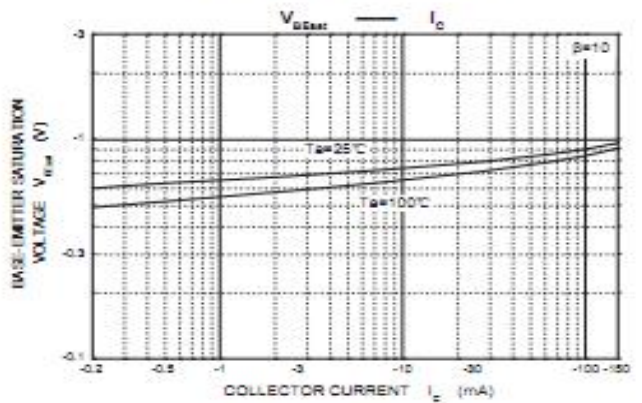
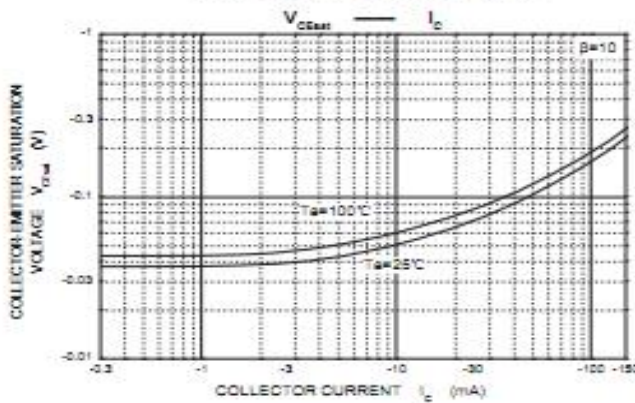
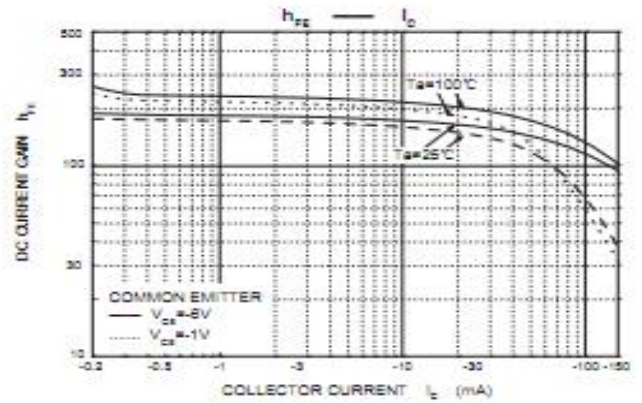
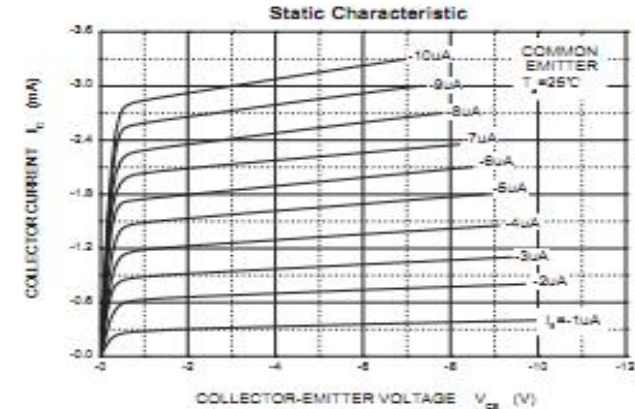
**ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise specified)**

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC= -100μA, IE=0	-50			V
Collector-emitter breakdown voltage	V(BR)CEO	IC= -0.1mA, IB=0	-50			V
Emitter-base breakdown voltage	V(BR)EBO	IE=-100μA, IC=0	-5			V
Collector cut-off current	ICBO	VCB=-50 V , IE=0			-0.1	μA
Collector cut-off current	ICEO	VCB=-50V , IE=0			-1	μA
Emitter cut-off current	IEBO	VEB= -5V , IC=0			-0.1	μA
DC current gain	hFE	VCE=-6V, IC= -2mA	130		400	
	hFE	VCE=-6V, IC= -0.2mA	70			
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
Collector Output Capacitance	Cob	VCB=-10V, IE= 0 f=1MHz			7	pf
Noise Figure	NF	VCE=-6V, IC= -0.1mA Rg=10kΩ; f=1kHz			6	dB

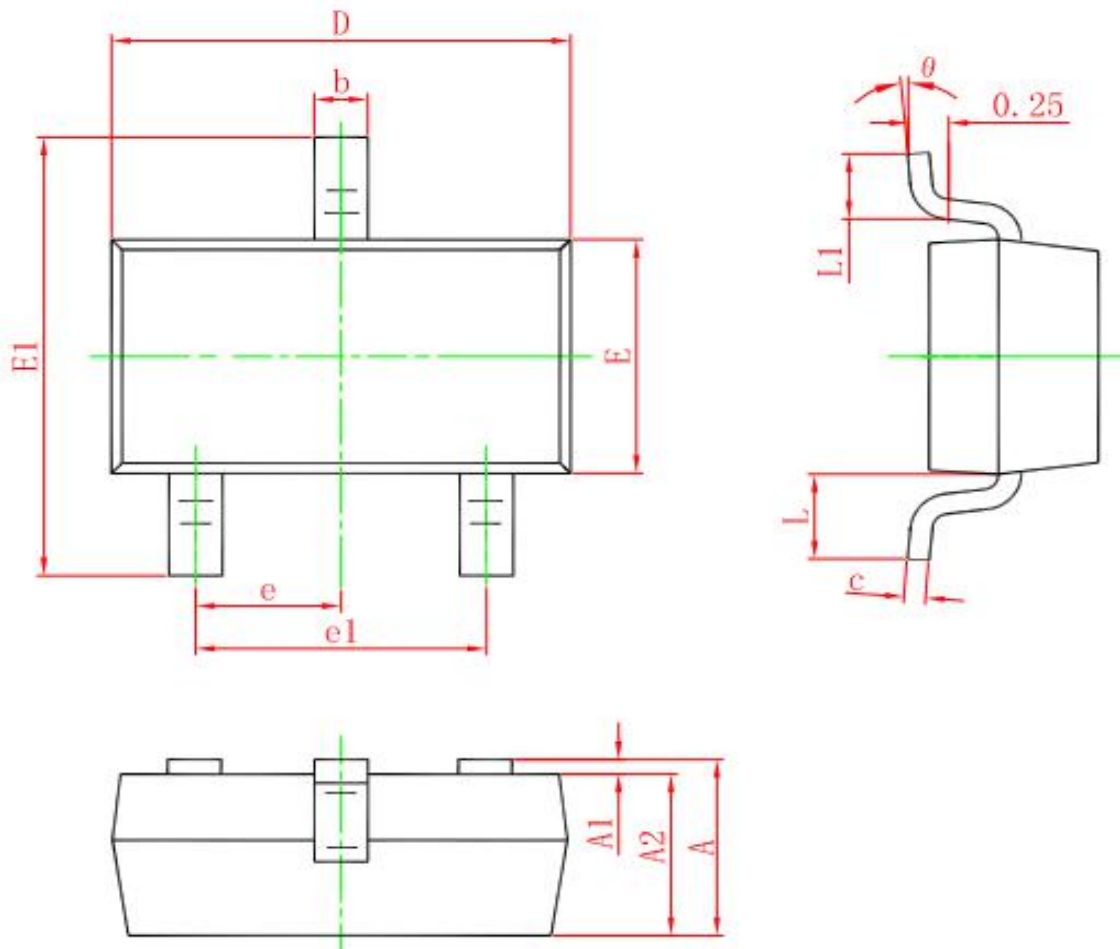
**CLASSIFICATION OF hFE**

Rank	L	H
Range	130-200	200-400

TYPICAL ELECTRICAL AND THERMAL CHARACTERISTICS



**SOT-23 PACKAGE OUTLINE DIMENSIONS**



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.550 REF.		0.022 REF.	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°

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