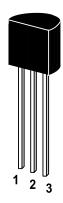
PNP Silicon Epitaxial Planar Transistor

for switching and AF amplifier applications.

The transistor is subdivided into three groups, O, Y and G, L, according to its DC current gain. As complementary type the NPN transistor ST 2SC1815 is recommended.

On special request, these transistors can be manufactured in different pin configurations.



1. Emitter 2. Collector 3. Base

TO-92 Plastic Package Weight approx. 0.19g

Absolute Maximum Ratings ($T_a = 25^{\circ}C$)

	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	-I _C	150	mA
Base Current	-I _B	50	mA
Power Dissipation	P _{tot}	400	mW
Junction Temperature	T _j	125	°C
Storage Temperature Range	Ts	-65 to +150	°C



SEMTECH ELECTRONICS LTD.

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Dated: 07/12/2002

ST 2SA1015

Characteristics at T_{amb}=25 °C

	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain					
at - V_{CE} =6 V , - I_{C} =2 mA					
Current Gain Group O	h _{FE}	70	-	140	-
Y	h _{FE}	120	-	240	-
G	h _{FE}	200	-	400	-
L	h _{FE}	350	-	700	-
at - V_{CE} =6 V , - I_{C} =150 m A	h _{FE}	25	-	-	-
Collector Base Breakdown Voltage					
at -I _C =100μA	-V _{(BR)CBO}	50	-	-	V
Collector Emitter Breakdown Voltage					
at -I _C =10mA	-V _{(BR)CEO}	50	-	-	V
Emitter Base Breakdown Voltage					
at -I _E =10μA	-V _{(BR)EBO}	5	-	-	V
Collector Cutoff Current					
at -V _{CB} =50V	-I _{CBO}	-	-	0.1	μΑ
Emitter Cutoff Current					
at -V _{EB} =5V	-I _{EBO}	-	-	0.1	μΑ
Collector Saturation Voltage					
at -I _C =100mA, -I _B =10mA	-V _{CE(sat)}	-	0.1	0.3	V
Base Saturation Voltage					
at -I _C =100mA, -I _B =10mA	-V _{BE(sat)}	-	-	1.1	V
Gain Bandwidth Product					
at -V _{CE} =10V, -I _C =1mA	f_T	80	-	-	MHz
Output Capacitance					
at -V _{CB} =10V, f=1MHz	C_OB	_	4	7	pF
Noise Figure					
at - V_{CE} =6 V , - I_{C} =0.1 mA					
f=100Hz, R_S =10K Ω	NF	-	0.5	6	dB



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