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 2SC1815 is recommended.



1. Emitter 2. Collector 3. Base TO-92 Plastic Package

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

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	-I _C	150	mA
Base Current	-I _B	50	mA
Power Dissipation	P _{tot}	400	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Parameter			Symbol	Min.	Max.	Unit
DC Current Gain						
at $-V_{CE} = 6 \text{ V}$, $-I_{C} = 2 \text{ mA}$	Current Gain Group	0	h _{FE}	70	140	-
		Y	h _{FE}	120	240	-
		G	h _{FE}	200	400	-
		L	h _{FE}	350	700	-
at $-V_{CE} = 6 \text{ V}$, $-I_{C} = 150 \text{ mA}$			h _{FE}	25	-	-
Collector Base Breakdown Voltage at -I _C = 100 µA	•		-V _{(BR)CBO}	50	-	V
Collector Emitter Breakdown Volta	20					
at $-I_C = 10 \text{ mA}$	y e		$-V_{(BR)CEO}$	50	-	V
Emitter Base Breakdown Voltage			\/	5		V
at -I _E = 10 μA			-V _{(BR)EBO}	5	-	V
Collector Base Cutoff Current			ı		0.1	
at $-V_{CB} = 50 \text{ V}$			-I _{CBO}	-	0.1	μA
Emitter Cutoff Current			-		0.1	
at $-V_{EB} = 5 V$			-I _{EBO}	-	0.1	μA
Collector Emitter Saturation Voltag	е		-V	_	0.3	V
at $-I_C = 100 \text{ mA}$, $-I_B = 10 \text{ mA}$			-V _{CE(sat)}	-	0.5	V
Base Emitter Saturation Voltage			\/		1.1	V
at $-I_C = 100 \text{ mA}$, $-I_B = 10 \text{ mA}$			-V _{BE(sat)}	1	1.1	V
Gain Bandwidth Product			f⊤	80		MHz
at $-V_{CE} = 10 \text{ V}$, $-I_{C} = 1 \text{ mA}$			ΙΤ	80		IVIITZ
Output Capacitance			Сов		7	pF
at $-V_{CB} = 10 \text{ V}$, $f = 1 \text{ MHz}$			OOB	_	,	Pi



































