PNP Silicon Epitaxial Planar Transistor

for switching and AF amplifier applications.

The transistor is subdivided into three groups, O, Y and S, according to its DC current gain. As complementary type the NPN transistor 2SC945 is recommended.

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



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

Absolute Maximum Ratings ($T_a = 25$ °C)

Parameter	Symbol	Symbol Value	
Collector Base Voltage	-V _{CBO}	50	V
Collector Emitter Voltage	-V _{CEO}	40	V
Emitter Base Voltage	-V _{EBO}	5	V
Collector Current	-I _C	100	mA
Power Dissipation	P _{tot}	300	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

Characteristics at T_a = 25 °C

Characteristics at 1 _a = 25 °C									
Parameter		Symbol	Min.	Тур.	Max.	Unit			
DC Current Gain at -V _{CE} = 6 V, -I _C = 1 mA	Current Gain Group	O Y	h _{FE}	120 180	-	270 390			
		S	h _{FE}	270	-	560	-		
Collector Base Cutoff Current at -V _{CB} = 30 V			-I _{CBO}	-	-	0.5	μΑ		
Emitter Base Cutoff Current at -V _{EB} = 4 V			-I _{EBO}	1	-	0.5	μΑ		
Collector Base Breakdown Volta at -I _C = 50 µA	ge		-V _{(BR)CBO}	50	-	-	V		
Collector Emitter Breakdown Vo	Itage		-V _{(BR)CEO}	40	-	-	V		
Emitter Base Breakdown Voltago at -I _E = 50 µA	е		-V _{(BR)EBO}	5	-	-	V		
Collector Emitter Saturation Volta at $-I_C = 50$ mA, $-I_B = 5$ mA	age		-V _{CE(sat)}	-	-	0.5	V		
Gain Bandwidth Product at $-V_{CE} = 12 \text{ V}$, $-I_{C} = 2 \text{ mA}$			f⊤	-	140	-	MHz		
Output Capacitance at -V _{CB} = 12 V, f = 1 MHz			СОВ	-	-	5	pF		

