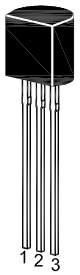
2SC2058

NPN Silicon Epitaxial Planar Transistor

High-frequency Amplifier Transistor

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	Value	Unit
Collector Base Voltage	V_{CBO}	40	V
Collector Emitter Voltage	V_{CEO}	25	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	50	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

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at V_{CE} = 6 V, I_C = 1 mA	h_{FE}	82	-	180	-
Collector Base Cutoff Current at V_{CB} = 24 V	I_{CBO}	-	-	0.5	µA
Emitter Base Cutoff Current at V_{EB} = 3 V	I_{EBO}	-	-	0.5	µA
Collector Base Breakdown Voltage at I_C = 50 µA	$V_{(BR)CBO}$	40	-	-	V
Collector Emitter Breakdown Voltage at I_C = 1 mA	$V_{(BR)CEO}$	25	-	-	V
Emitter Base Breakdown Voltage at I_E = 50 µA	$V_{(BR)EBO}$	5	-	-	V
Collector Emitter Saturation Voltage at I_C = 10 mA, I_B = 1 mA	V_{CEsat}	-	0.1	0.3	V
Transition Frequency at V_{CE} = 6 V, I_E = -1 mA, f = 100 MHz	f_T	150	300	-	MHz
Output Capacitance at V_{CB} = 6 V, f = 1 MHz	C_{ob}	-	1.3	2.2	pF