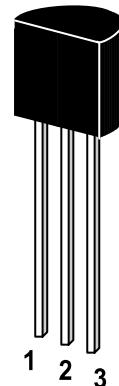




NPN Silicon Epitaxial Planar Transistor
for low-frequency power amplification and
stroboscope.

The transistor is subdivided into three groups P, Q
and R, according to its DC current gain.

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 ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Collector to Base Voltage	V_{CBO}	40	V
Collector to Emitter Voltage	V_{CEO}	20	V
Emitter to Base Voltage	V_{EBO}	7	V
Peak Collector Current	I_{CP}	8	A
Collector Current	I_C	5	A
Collector Power Dissipation	P_C	1	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$

Characteristics at $T_{amb}=25^{\circ}C$

		Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=2V$, $I_C=0.5A$	P	h_{FE}	120	-	250	-
	Q	h_{FE}	230	-	380	-
	R	h_{FE}	340	-	600	-
		h_{FE}	150	-	-	-
Collector Cutoff Current at $V_{CB}=10V$		I_{CBO}	-	-	0.1	μA
Emitter Cutoff Current at $V_{EB}=7V$		I_{EBO}	-	-	0.1	μA
Collector Output Capacitance at $V_{CB}=20V, f=1.0MHz$		C_{ob}	-	-	50	pF
Collector to Emitter Voltage at $I_C=1mA$		V_{CEO}	20	-	-	V
Emitter to Base Voltage at $I_E=10\mu A$		V_{EBO}	7	-	-	V
Collector to Emitter Saturation Voltage at $I_C=3A, I_B=0.1A$		$V_{CE(sat)}$	-	-	1	V
Transition Frequency at $V_{CB}=6V, I_E=-50mA, f=200MHz$		f_T	-	150	-	MHz

