

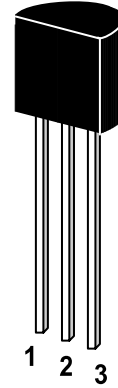
ST 2SC5345

NPN Silicon Epitaxial Planar Transistor

RF amplifier applications.

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

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

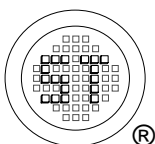


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	30	V
Collector Emitter Voltage	V_{CEO}	20	V
Emitter Base Voltage	V_{EBO}	4	V
Collector Current	I_C	20	mA
Collector Dissipation	P_{tot}	500	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 71116



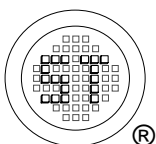
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Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $V_{CE}=6\text{V}$, $I_C=1\text{mA}$	R	h_{FE}	40	-	80	-
	O	h_{FE}	70	-	140	-
	Y	h_{FE}	120	-	240	-
Collector Base Breakdown Voltage at $I_C=10\mu\text{A}$		V_{CBO}	30	-	-	V
Collector Emitter Breakdown Voltage at $I_C=5\text{mA}$		V_{CEO}	20	-	-	V
Emitter Base Breakdown Voltage at $I_E=10\mu\text{A}$		V_{EBO}	4	-	-	V
Collector Cutoff Current at $V_{CB}=30\text{V}$		I_{CBO}	-	-	0.5	μA
Emitter Cutoff Current at $V_{EB}=4\text{V}$		I_{EBO}	-	-	0.5	μA
Collector Emitter Saturation Voltage at $I_C=10\text{mA}$, $I_B=1\text{mA}$		$V_{CE(sat)}$	-	-	0.3	V
Transition Frequency at $V_{CE}=6\text{V}$, $I_E=-1\text{mA}$		f_T	-	550	-	MHz
Collector Output Capacitance at $V_{CB}=6\text{V}$, $f=1\text{MHz}$		C_{OB}	-	1.4	-	pF



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