

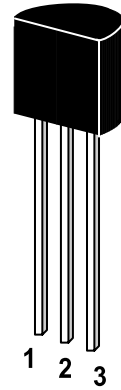
ST 2SC2668

NPN Silicon Epitaxial Planar Transistor

High frequency 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.

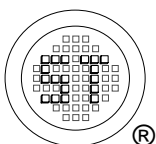


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

Absolute Maximum Ratings (Ta=25°C)

	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	40	V
Collector Emitter Voltage	V_{CEO}	30	V
Emitter Base Voltage	V_{EBO}	4	V
Collector Current	I_C	20	mA
Base Current	I_B	4	mA
Power Dissipation	P_{tot}	100	mW
Junction Temperature Range	T_j	125	°C
Storage Temperature Range	T_S	-55 to +125	°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
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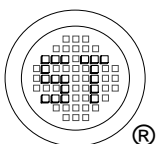
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Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=6\text{V}$, $I_C=1\text{mA}$					
Current Gain Group R	h_{FE}	40	-	80	-
O	h_{FE}	70	-	140	-
Y	h_{FE}	100	-	200	-
Collector Cutoff Current at $V_{CB}=40\text{V}$	I_{CBO}	-	-	0.5	μA
Emitter Cutoff Current at $V_{EB}=4\text{V}$	I_{EBO}	-	-	0.5	μA
Reverse Transfer Capacitance at $V_{CE}=6\text{V}$, $f=1\text{MHz}$	C_{re}	-	0.70	-	pF
Transition Frequency at $V_{CE}=6\text{V}$, $I_C=1\text{mA}$	f_T	-	550	-	MHz
Collector Base Time Constant at $V_{CE}=6\text{V}$, $I_E=-1\text{mA}$, $f=30\text{MHz}$	$C_C \cdot r_{bb'}$	-	-	30	ps
Noise Figure at $V_{CC}=6\text{V}$, $f=100\text{MHz}$, $I_E=-1\text{mA}$	NF	-	2.5	5.0	dB
Power Gain at $V_{CC}=6\text{V}$, $f=100\text{MHz}$, $I_E=-1\text{mA}$	G_{pe}	-	18	-	dB



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