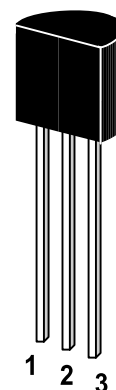


ST 2SA1048

PNP Silicon Epitaxial Planar Transistor
for audio frequency amplifier applications.

The transistor is subdivided into three groups, O, Y and G, according to its DC current gain. As complementary type the NPN transistor ST 2SC2458 is recommended.

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



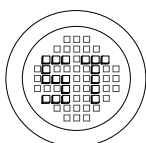
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	50	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	50	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Collector Current	$-I_{\text{C}}$	150	mA
Base Current	$-I_{\text{B}}$	50	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_{J}	125	$^\circ\text{C}$
Storage Temperature Range	T_{S}	-55 to +125	$^\circ\text{C}$

G S P FORM A IS AVAILABLE



®

РАДИОТЕХ

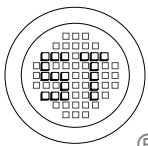
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ST 2SA1048

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

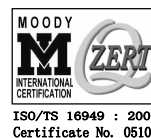
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE}=6\text{V}$, $-I_C=2\text{mA}$ Current Gain Group	O				
	Y				
	G				
	h_{FE}	70	-	140	-
	h_{FE}	120	-	240	-
	h_{FE}	200	-	400	-
Collector Cutoff Current at $-V_{CB}=50\text{V}$	$-I_{CBO}$	-	-	0.1	μA
Emitter Cutoff Current at $-V_{EB}=5\text{V}$	$-I_{EBO}$	-	-	0.1	μA
Collector Saturation Voltage at $-I_C=100\text{mA}$, $-I_B=10\text{mA}$	$-V_{CE(sat)}$	-	0.1	0.3	V
Transition Frequency at $-V_{CE}=10\text{V}$, $-I_C=1\text{mA}$	f_T	80	-	-	MHz
Output Capacitance at $-V_{CB}=10\text{V}$, $f=1\text{MHz}$	C_{OB}	-	4	7	pF
Noise Figure at $-V_{CE}=6\text{V}$, $-I_C=0.1\text{mA}$ $f=1\text{kHz}$, $R_G=10\text{K}\Omega$	NF	-	1	10	dB

G S P FORM A IS AVAILABLE

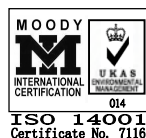


SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 555-1999-02-002-004

Dated : 07/12/2002