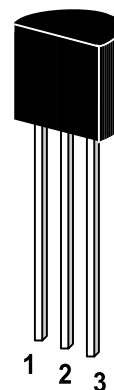


ST BC369

PNP Medium Power Transistor
General purpose switching and amplification
Power application such as audio output stages.

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

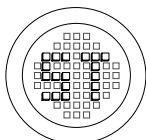
Absolute Maximum Ratings (T_a = 25°)

	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	32	V
Collector Emitter Voltage	$-V_{CEO}$	20	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current (DC)	$-I_C$	1	A
Peak Collector Current	$-I_{CM}$	2	A
Peak Base Current	$-I_{BM}$	200	mA
Total Power Dissipation T _{amb} ? 25°	P _{tot}	0.83	W
Junction Temperature	T _j	150	°
Storage Temperature Range	T _s	-65 to +150	°
Operating Ambient Temperature	T _{amb}	-65 to +150	°

Thermal Characteristics

	Symbol	Value	Unit
Thermal Resistance From Junction to Ambient	R _{th j-a}	150	K/W

G S P FORM A IS AVAILABLE



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РАДИОТЕХ

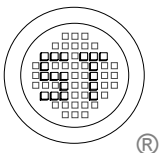
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

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

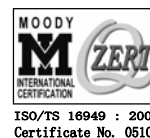
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $-V_{CE}=10\text{V}$, $-I_C=5\text{mA}$	h_{FE}	50	-	-	-
at $-V_{CE}=1\text{V}$, $-I_C=500\text{mA}$	h_{FE}	85	-	375	-
at $-V_{CE}=1\text{V}$, $-I_C=1\text{A}$	h_{FE}	60	-	-	-
DC Current Gain					
at $-V_{CE}=1\text{V}$, $-I_C=500\text{mA}$	h_{FE}	100	-	250	-
	h_{FE}	160	-	375	-
Collector Cutoff Current					
at $-V_{CB}=25\text{V}$	$-I_{CBO}$	-	-	100	nA
at $-V_{CB}=25\text{V}$, $T_j=150^{\circ}\text{C}$	$-I_{CBO}$	-	-	10	μA
Emitter Cutoff Current					
at $-V_{EB}=5\text{V}$	$-I_{EBO}$	-	-	0.1	μA
Collector-Emitter Saturation Voltage					
at $-I_C=1\text{A}$, $-I_B=100\text{mA}$	$-V_{CE(sat)}$	-	-	0.5	V
Base-Emitter Voltage					
at $-I_C=5\text{mA}$, $-V_{CE}=10\text{V}$	$-V_{BE}$	-	-	0.7	V
at $-I_C=1\text{A}$, $-V_{CE}=1\text{V}$	$-V_{BE}$	-	-	1	V
Transition Frequency					
at $-V_{CE}=5\text{V}$, $-I_C=10\text{mA}$, $f=100\text{MHz}$	f_T	40	-	-	MHz
DC Current Gain Ratio of the Complementary Pairs					
at $ V_{CE} =1\text{V}$, $ I_C =500\text{mA}$	$\frac{h_{FE1}}{h_{FE2}}$	-	-	1.6	-

G S P FORM A IS AVAILABLE



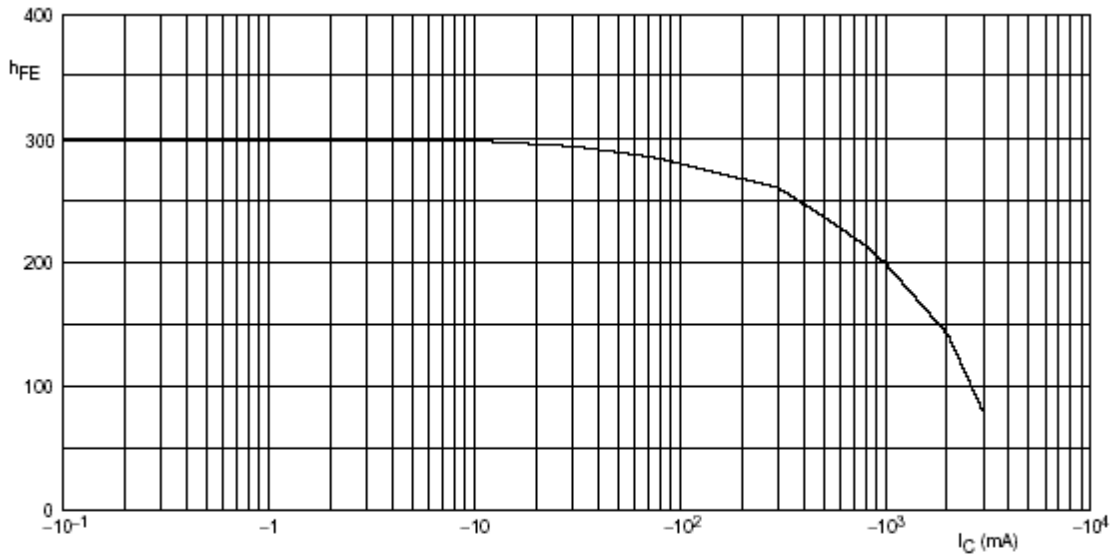
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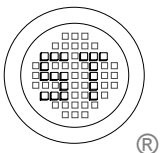
Dated : 19/03/2005

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$V_{CE} = -1V.$

Fig.1 DC current gain; typical values.



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