Linear Systems NPN Transistor

The LS3250SB is a NPN transistor mounted in a single TO-92 package.

The 3 Pin TO-92 provides ease of manufacturing, and the symmetrical pinout prevents improper orientation.

(See Packaging Information).

LS3250SB Features:

- Low Output Capacitance

FEATURES	
LOW CAPACITANCE	≤ 2pF
ABSOLUTE MAXIMUM RATINGS [1] @ 25°C (unless otherwise noted)	
Maximum Temperatures	
Storage Temperature	-65°C to +150°C
Operating Junction Temperature	-55°C to +150°C
Maximum Power Dissipation	
Continuous Power Dissipation	TBD
Maximum Currents	
Collector Current	50mA
Maximum Voltages	
Collector to Collector Voltage	80V

ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

SYMBOL	CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	CONDITIONS
BV_{CBO}	Collector to Base Voltage	40	--	--	V	$I_C = 10mA$, $I_E = 0$
BV_{CEO}	Collector to Emitter Voltage	40	--	--	V	$I_C = 10\mu A$, $I_B = 0$
BV_{EBO}[2]	Emitter-Base Breakdown Voltage	6.2	--	--	V	$I_E = 10\mu A$, $I_C = 0$
h_{FE}	DC Current Gain	100	--	--		$I_C = 10\mu A$, $V_{CE} = 5V$
		80	--	--		$I_C = 100\mu A$, $V_{CE} = 5V$
		80	--	--		$I_C = 1mA$, $V_{CE} = 5V$
$V_{CE}(SAT)$	Collector Saturation Voltage	--	--	0.25	V	$I_C = 100mA$, $I_B = 10mA$
I_{EBO}	Emitter Cutoff Current	--	--	0.2	nA	$I_C = 0A$, $V_{CB} = 3V$
I_{CBO}	Collector Cutoff Current	--	--	0.2	nA	$I_E = 0A$, $V_{CB} = 20V$
C_{OBO}	Output Capacitance	--	--	2	pF	$I_E = 0A$, $V_{CB} = 10V$
f_T	Current Gain Bandwidth Product	--	--	600	MHz	$I_C = 1mA$, $V_{CE} = 5V$
NF	Narrow Band Noise Figure	--	--	3	dB	$I_C = 100\mu A$, $V_{CE} = 5V$, BW=200Hz, $R_B= 10\Omega$, f = 1KHz

Notes:

1. Absolute Maximum ratings are limiting values above which serviceability may be impaired

2. The reverse base-to-emitter voltage must never exceed 6.2 volts; the reverse base-to-emitter current must never exceed 10μA.

micross

Available Packages:

LS3250SB in TO-92
LS3250SB available as bare die

Please contact Micross for full package and die dimensions:

Email: chipcomponents@micross.com
Web: www.micross.com/distribution.aspx

T0-92 (Bottom View)

C	B	E
1	2	3