LINEAR SYSTEMS

LS3250SA
NPN TRANSISTOR

micross

Linear Systems NPN Transistor

The LS3250SA is a NPN transistor mounted in a single TO-92 package.

The 3 Pin TO-92 provides ease of manufacturing.

(See Packaging Information).

LS3250SA Features:

- Low Output Capacitance

FEATURES	
LOW OUTPUT 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	45	--	--	V	I_C = 10mA, I_E = 0
BV_{CEO}	Collector to Emitter Voltage	45	--	--	V	I_C = 10µA, I_B = 0
BV_{EBO} [2]	Emitter-Base Breakdown Voltage	6.2	--	--	V	I_E = 10µA, I_C = 0
BV_{CCO}	Collector to Collector Voltage	80	--	--	V	I_C = 10µA, I_E = 0
h_{FE}	DC Current Gain	150	--	--		I_C = 10µA, V_{CE} = 5V
		120	--	--		I_C = 100µA, V_{CE} = 5V
		100	--	--		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 = 100µA, V_{CE} = 5V, BW=200Hz, R_B= 10Ω, 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.

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Available Packages:

LS3250SA in TO-92
LS3250SA 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)