

Linear Systems PNP Transistor

The LS3550SA is a PNP transistor mounted in a SOT-23 package.

The SOT-23 provides ease of manufacturing.

(See Packaging Information).

LS3550SA Features:

- Low Output Capacitance

FEATURES

3 LEAD SOT-23 SURFACE MOUNT PACKAGE

ABSOLUTE MAXIMUM RATINGS¹
@ 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
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Maximum Currents

Collector Current	10mA
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Maximum Voltages

Collector to Collector Voltage	80V
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ELECTRICAL CHARACTERISTICS @ 25°C (unless otherwise noted)

SYMBOL	CHARACTERISTICS	MIN.	TYP.	MAX.	UNITS	CONDITIONS
V_{CB0}	Collector to Base Voltage	-45	--	--	V	$I_C = 10\mu A, I_E = 0$
V_{CE0}	Collector to Emitter Voltage	-45	--	--	V	$I_C = 10\mu A, I_B = 0$
V_{EBO}	Emitter-Base Breakdown Voltage	-6.2	--	--	V	$I_E = 10\mu A, I_C = 0^2$
V_{CC0}	Collector to Collector Voltage	-80	--	--	V	$I_C = 10\mu A, I_E = 0$
h_{FE}	DC Current Gain	150	--	--		$I_C = -1mA, V_{CE} = -5V$
		120	--	--		$I_C = -10mA, V_{CE} = -5V$
		100	--	--		$I_C = -100mA, V_{CE} = -5V$
$V_{CE(SAT)}$	Collector Saturation Voltage	--	--	-0.25	V	$I_C = -100mA, I_B = -10mA$
I_{EBO}	Emitter Cutoff Current	--	--	-0.2	nA	$I_E = 0, V_{CB} = -3V$
I_{CBO}	Collector Cutoff Current	--	--	-0.2	nA	$I_E = 0, V_{CB} = -30V$
C_{OBO}	Output Capacitance	--	--	2	pF	$I_E = 0, V_{CB} = -10V$
f_T	Current Gain Bandwidth Product (Current)	--	--	600	MHz	$I_C = -1mA, V_{CE} = -5V$
NF	Narrow Band Noise Figure	--	--	3	dB	$I_C = -100\mu A, V_{CE} = -5V, BW = 200Hz, R_G = 10\Omega, f = 1KHz$

Notes:

- Absolute Maximum ratings are limiting values above which serviceability may be impaired
- The reverse base-to-emitter voltage must never exceed 6.2 volts; the reverse base-to-emitter current must never exceed 10µA.



Available Packages:

LS3550SA in SOT-23
LS3550SA available as bare die

Please contact Micross for full package and die dimensions:

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

SOT-23 (Top View)

