

LINEAR SYSTEMS

Linear Integrated Systems

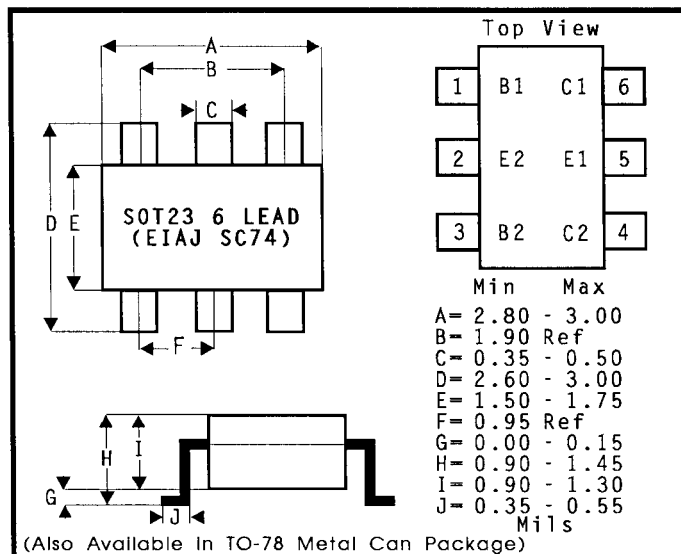
LS3550A, LS3550B, LS3550C SOT-6 LEAD SURFACE MOUNT MONOLITHIC DUAL PNP TRANSISTORS

FEATURES

- 6 lead Surface Mount Package
- Tight Matching - .5 mV Typ. / 2 mV Max. (LS3550A)
- Monolithic Dual - Excellent Thermal tracking
- Special Screening is Available
- For Log Conformance version use LS3559
- For NPN Complement use LS3250A,LS3250B,LS3250C
- For NPN Log Conformance Version use LS3259

ABSOLUTE MAXIMUM RATINGS (NOTE: 1)

Collector Current	50mA
Storage Temperature	-55 to +150 C
Operating Junction Temperature	+150 C
Device Dissipation at Free Air	TBD
Linear Derating Factor	TBD



SYMBOL	CHARACTERISTICS	3550A	3550B	3550C	UNITS	CONDITIONS
IVBE1-VBE2I	Base Emitter Voltage Differential	2	5	10	MAX mV	IC= 10mA, VCE= 5V
IVBE1-VBE2I/C	Base Emitter Voltage Differential Change with Temperature	3	5	15	MAX uV/C	IC= 10mA, VCE= 5V TA= -40 to +85 C
IIB1-IB2I	Base Current Differential	10	10	10	MAX nA	IC= 10uA, VCE= 5V
IIB1-IB2I/C	Base Current Differential Change with Temperature	.5	.5	1	MAX nA/C	IC= 10uA, VCE= 5V TA= -40 to +85 C
Ihfe1-hfe2I	Current Gain Differential	10	10	15	MAX %	IC= 10uA, VCE= 5V
BVCBO	Collector to Base Voltage	45	40	20	MIN V	IC= 10mA, IE= 0
BVCEO	Collector to Emitter Voltage	45	40	20	MIN V	IC= 10uA, IB= 0
BVEBO	Emitter to Base Voltage	6.2	6.2	6.2	MIN V	IE= 10uA, IC= 0 (Note 2)
BVCCO	Collector to Collector Voltage	80	80	80	MIN V	IC= 10uA, IE= 0
hFE	DC Current Gain	150	100	50	MIN	IC= 1mA, VCE= 5V
hFE	DC Current Gain	120	80	40	MIN	IC= 10mA, VCE= 5V
hFE	DC Current Gain	100	80	40	MIN	IC= 35mA, VCE= 10V
VCE(SAT)	Collector Saturation Voltage	.25	.25	1.2	MAX V	IC= 10mA, IB= 1mA
ICBO	Collector Cutoff Current	.2	.2	.2	MAX nA	IE= 0, VCB= 10V
IEBO	Emitter Cutoff Current	.2	.2	.2	MAX nA	IE= 0, VCB= 3V
COBO	Output Capacitance	2	2	2	MAX pF	IE= 0, VCB= 15V
Ic1c2	Collector to Collector Leakage Current	1	1	1	MAX nA	Vcc= +/- 80V
fT	Current Gain Bandwidth Product	600	600	600	MIN MHz	Ic= 1mA, VCE= 5V
NF	Narrow Band Noise Figure	3	3	3	MAX dB	Ic= 100uA, VCE= 5V BW=200Hz, RG=10 ohms f=1KHZ

NOTES:

- These ratings are limiting values above which the serviceability of any semiconductor may be impaired.
- The reverse base to emitter voltage must never exceed 6.2 volts; the reverse base to emitter current must never exceed 10uA.