

SL2365

VERY HIGH PERFORMANCE TRANSISTOR ARRAY

The SL2365 is an array of transistors internally connected to form a dual long-tail pair with current mirrors whose bases and collectors are connected internally. The ICs are manufactured on a very high speed bipolar process which has a minimum usable f_T of 2.5GHz (typically 5GHz). The current mirror enables a well defined gain at low current levels to be achieved.

FEATURES

- Complete Dual Long Tailed Pair in One Package
- Very High f_T - Typically 5GHz
- Well Defined Gain at Low Current Levels
- Available in Small Outline Package

CAUTION

Pins 4 and 11 should be equal and at the most negative voltage on the array.

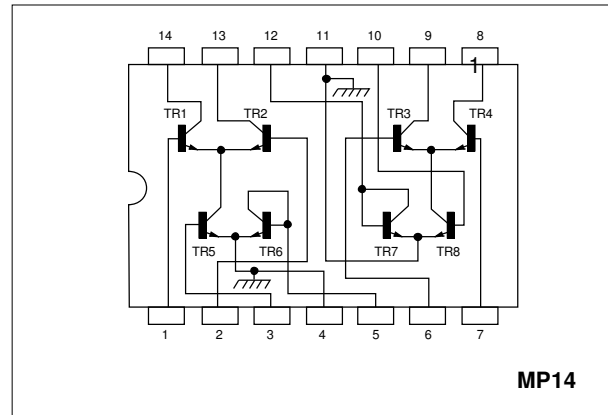


Fig. 1 Pin connections (top view)

ELECTRICAL CHARACTERISTICS

Characteristics	Value			Units	Conditions
	Min.	Typ.	Max.		
BV_{CBO}	10	20		V	$I_C = 10\mu A$
LV_{CEO}	6	9		V	$I_C = 5mA$
BV_{EBO}	2.5	5		V	$I_E = 10\mu A$
BV_{CIO}	16	40		V	$I_C = 10\mu A$
H_{fe}	50	80			$I_C = 8mA, V_{CE} = 2V$
f_T	2.5	5		GHz	$I_C(Tail) = 8mA, V_{CE} = 2V$
ΔV_{BE}		2	5	mV	$I_C(Tail) = 8mA, V_{CE} = 2V$
$\Delta V_{BE} / T_{AMB}$		-7		mV/°C	$I_C(Tail) = 8mA, V_{CE} = 2V$
C_{CB}		0.5	0.8	pF	$V_{CB} = 0$
C_{CI}		1.0	1.5	pF	$V_{CI} = 0$

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