Ordering number:ENN1487B

Monolithic Linear IC

LA7808

B/W TV Synchronization, Deflection Circuit

Overview

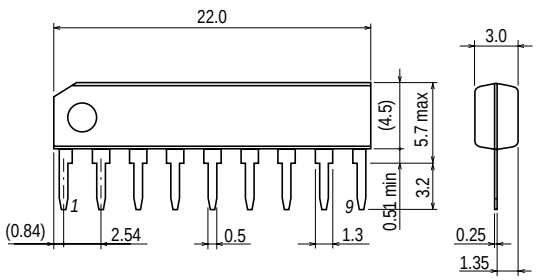
The LA7808 contains a sync separator.

Package Dimensions

unit:mm

3017D-SIP9

[LA7808]



SANYO : SIP9

Specifications

Maximum Ratings at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Maximum supply voltage	V1		14.0	V
	V7		14.0	V
Allowable power dissipation	Pd max	Ta≤60˚C	300	mW
Operating temperature	Topr		–20 to +85	˚C
Storage temperature	Tstg		–55 to +125	˚C

Recommended Operating Conditions at Ta = 25˚C

Parameter	Symbol	Conditions	Ratings	Unit
Recommended supply voltage	V1		12.0	V
	V7		12.0	V

Operating Characteristics at Ta = 25˚C, V1=V7=12V

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
V_{CC1} current drain	I_{CC1}		6.0		11.0	mA
V_{CC2} current drain	I_{CC7}		3.8		7.1	mA
Sync Separation input DC level			9.0		9.6	V
Sync signal peak value			11.0			V

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Horizontal DC loop gain		+sign at v_2=5v, –sign at v_2=1v	±240		±400	µA
Horizontal free-running frequency	f_H	f_H center=15.750kHz	–750		750	Hz
Horizontal oscillation start voltage					4.0	V
Increased/reduced voltage characteristic of horizontal frequency		V1=12±1V (15.750kHz at 12V)	–50		+50	Hz/V
Temperature characteristic of horizontal frequency		Ta=–10 to +60°C	–2.20		+1.22	Hz/°C
Horizontal frequency warm-up drift		5s to 30min. after switch ON	–90		+50	Hz
Horizontal output pulse width		Positive pulse period	21.5		26.5	µs
Horizontal output drive current			4.2		7.8	mA

Sample Application Circuit : Sync, Deflection Circuit