Monolithic Linear IC



Use

. Especially suited for use in micorcomputer-controlled tuners, receivers, preamp and the like

## Functions and Features

- . Two independent voltage regulators contained in a single chip (15.5V/350mA, 5.6V/100mA)
- . Reset circuit which delivers the reset signal on the positive transition, negative transition of the 5.6V output
- . Muting circuit which detects the 15.5V output and reset output to deliver the muting signal

(We have the LA5666 whose detection function for reset, muting is provided on the input voltage side.)

Maximum Ratings at Ta	1=25 <sup>0</sup> C					uni	.t	
Input Voltage		VIN1,2			35	V	ſ	
Output Current		LOUT1.2	Internal		_			
Allowable Power Dis	-	n Pdmax	IC only		1.6			
Operating Temperatu	ire	Topr		-30 to				
Storage Temperature	<b>e</b> .	Tstg		-40 to	+125	°C	,	
Operating Conditions	at Ta=2	5 <sup>0</sup> C				uni	t	
Input Voltage			Icrm = 200mA	19 t	o 35			
		VIN1	I <sub>OUT1</sub> =200mA I <sub>OUT2</sub> =50mA	8.7 t				
		V <sub>IN2</sub>	-00T2-50mm			-		
Operating Characteris	stics at	$Ta=25^{\circ}C.V_{-}$	$x_4 = 20V \cdot V_{T \times 0} = 10$	v	min	typ	max	unit
Quiescent Current	_		NI YINZ		1.8		3.8	mA
<b>~~</b>					3.8		7.8	mA
Output Voltage	IIN2	I <sub>OUT1</sub> =200m	Δ	-	-	15.5	-	v
	V01	$I_{OUT2} = 50 \text{ mA}$			5.1			v
Line Regulation	V <sub>v</sub> o2	$v_{IN2}$ =19 to				6	20	mV
PTHE WEBAIRCION	Vol1	VIN2-19 CO	187			2	20	mV
Lood Rogulation	<b>'</b> 012	$V_{IN2} = 9$ to	10V			10	30	mV
Load Regulation	Vold1	Io=0 to 35				2	20	шv mV
	Vold2	Io=0 to 10			= 6	65	20	
Ripple Rejection	Rr1	f=120Hz,Ic			56	-		dB
	Rr2	f=120Hz,Ic	=50mA	<b>A</b>	60	75		dB
				Contir		on ne	ext pa	ge.
			Package Dimen	sions 307	'Ð	1.4 \$	10	
			(unit:mm)		$- \square$	 >	***	
					$\prec$	1 4 7		
					1	()	1 I H	

SANYO Electric Co., Ltd. Semiconductor Business Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

SANYO: SEP 7H

Continued	from	preceding	page.
-----------	------	-----------	-------

.

			. min	typ	max	unit
Input-Output Voltage Drop	Vdr1	Io=200mA		1.6	2.5	V
	Vdr2	Io=50mA		1.5	2.5	V
Reset Detect Voltage	VR	(Note 1)	4.9	5.1	5.5	V
Timer Compare Voltage	V <sub>C1</sub>		1.0	1.2	1.4	V
	V <sub>C2</sub>		0.06	0.13	0.18	V
Timer Input Bias Current	ITB				250	nA
Muting Detect Voltage	VM	(Note 2)	13.5	14.5	15.5	V
Muting Output Voltage	VOMUTE	I <sub>OMUTE</sub> =5mA		0.1	0.15	V
Note 1: V <sub>R</sub> is the voltage	of V <sub>02</sub>	at the time	reset is turned OF	F.		
Note 2: $V_{M}^{n}$ is the voltage	of $V_{01}$	at the time a	muting is turned (	OFF.		

Equivalent Circuit Block Diagram, Pin Assignment, and Peripheral Circuit



(Note) The reset delay time is set by R, C.

Pin No.	Name	Description
1.	V_IN 1 GND	Input pin for 15.5V output line
2	GND '	Ground
3	RESET	Reset delay time and output pin
<u>4</u>	V <sub>TN2</sub>	Input pin for 5.6V output line
5	VIN2 OUT2	5.6V output pin
6	MUTE	Muting signal output pin
7	OUT1	15.5V output pin







- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall: ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
  - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.