



No.1492

STK5421

Thick Film Hybrid Integrated Circuit
4-OUTPUT SERIES REGULATOR
FOR VTR APPLICATIONS

Features

1. 4-output/1-package voltage regulator fabricated using Sanyo's original IMST (Insulated Metal Substrate Technology).
2. Provides cutoff function to cut off output voltage according to external signal.
3. Output voltages of 4 outputs are set.
4. Small size and excellent cost performance.

Maximum Ratings at Ta=25°C

		Vo1	Vo2	Vo3	Vo4	unit
Maximum Output Current	Iomax	Average/Peak 1/2.5	1/2	1/3	0.5/1	A
Maximum DC Input Voltage	Vin(DC)max	→	→	→	30	V
Thermal Resistance	θj-c	→	→	→	4.5	°C/W
Operating Case Temperature	Tc	→	→	→	105	°C
Junction Temperature	Tj	→	→	→	150	°C
Storage Temperature	Tstg	→	→	→	-30~+105	°C

Operating Characteristics at Ta=25°C

		Vo1	Vo2	Vo3	Vo4	unit
Output Voltage Setting	Condition 1	16.0 ±0.3	9.55 ±0.1	12.0 ±0.3	12.3 ±0.3	V
Ripple Rejection	Condition2	*5	3	5	3mVppmax	
Output Cutoff Characteristic	1V or less ON 3V or more OFF	with	with	with- out	with	
Temperature Coefficient	Condition 1	→	→	→	0.02%/°Cmax	
Input Regulation	Condition 3	30	35	35	35mV/Vmax	
Load Regulation	Condition 4	45	35	35	35mV/Amax	
Minimum Input-Output Voltage Difference	Condition 5	1.2	-	1.2	1.2 Vmax	

Condition 1: Vin(DC)1=21V, Vin(DC)2=15V, Io1=2A, Io2, Io3=1A, Io4=0.5A

Condition 2: Vin(DC)1=21V, Vin(DC)2=15V, Io1=2A, Io2, Io3=1A, Io4=0.5A

Input ripple=1.5Vpp, *: Output noise of Vo1:50mVppmax

Condition 3: Vin(DC)1=21V±3V, Vin(DC)2=15V±2V,

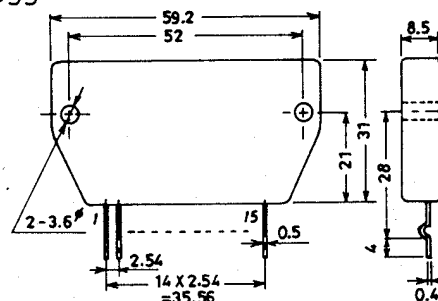
Io1=2A, Io2, Io3=1A, Io4=0.5A

Condition 4: Vin(DC)1=21V, Vin(DC)2=15V, Io1, Io2, Io3=0.2 to 2.0A, Io4=0 to 1A

Condition 5: Io1=2A, Io2, Io3=1A, Io4=0.5A

Case Outline 4033 (unit:mm)

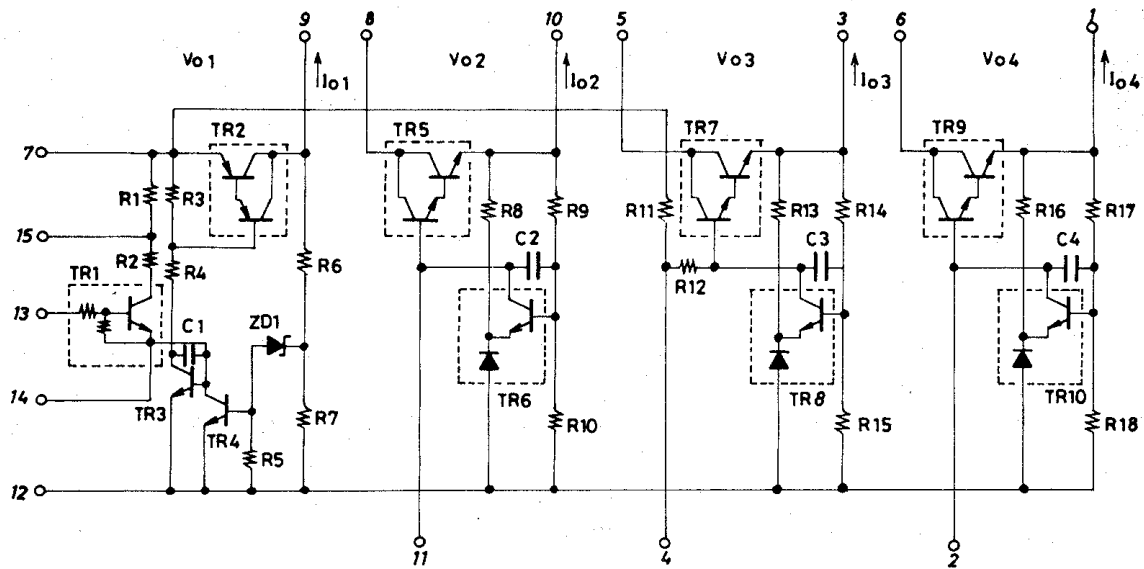
Information furnished by SANYO is believed to be accurate and reliable. However, no responsibility is assumed by SANYO for its use; nor for any infringements of patents or other rights of third parties which may result from its use, and no license is granted by implication or otherwise under any patent or patent rights of SANYO.



These specifications are subject to change without notice.

TOKYO SANYO ELECTRIC CO., LTD. SEMICONDUCTOR DIVISION
15-13, 6-CHOME, SOTOKANDA, CHIYODA-KU, TOKYO 100 JAPAN

Equivalent Circuit



Test Circuit

