

No.1306

STK5324

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

Features

1. 2-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 2 outputs are set.
4. Small size and excellent cost performance.

Maximum Ratings at $T_a=25^{\circ}\text{C}$

		[Output 1]	[Output 2]	unit
Maximum Output Current	I_{omax}	1.6	2.5	A
Maximum DC Input Voltage	$V_{\text{in(dc)max}}$		30	V
Thermal Resistance	θ_{jc}		2.8	$^{\circ}\text{C/W}$
Operating Case Temperature	T_c		105	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-30 to +105		$^{\circ}\text{C}$
Junction Temperature	T_{jmax}		150	$^{\circ}\text{C}$

Operating Characteristics at $T_a=25^{\circ}\text{C}$, at specified test circuit

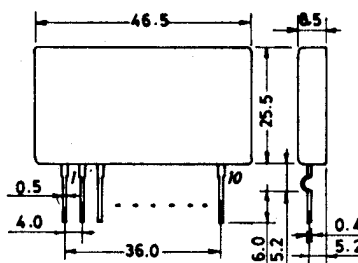
		min	typ	max	unit
Output Voltage Setting	$V_{\text{in(dc)}}=V_B=18.0\text{V},$ Output1:1.1A Output2:0.8A	Output1:11.9	12.0	12.1	V
		Output2:11.7	12.0	12.3	V
Ripple Rejection		Output1:		0.3	%
		Output2:		3.0	%
Output Cutoff Characteristic		at test circuit.			
Temperature Coefficient				0.02	%/ $^{\circ}\text{C}$
Output Residual Voltage at Cutoff Mode				0.1	V
Input Regulation	*1			35	mV/V
Output Regulation	*2			35	mV/A
Minimum Input-Output Voltage Difference	$V_B=18.0\text{V}, \text{Output } 1.0\text{A}$	1.5			V

*1: $V_{\text{in(dc)}}=V_B=15.0$ to 22.0V , Output1:1.1A, Output2:0.8A

*2: $V_{\text{in(dc)}}=V_B=18.0\text{V}$, Output1:0 to 1.1A, Output2:0 to 2.0A

Case Outline 4036 (unit:mm)

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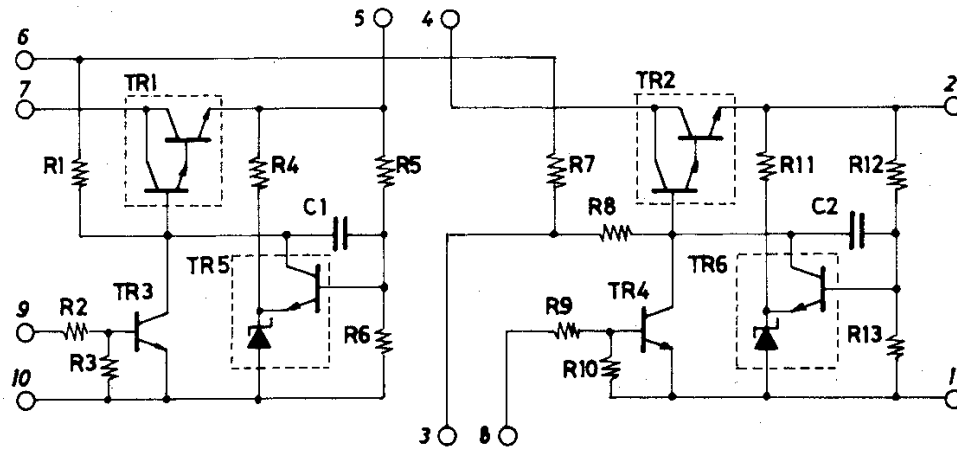


These specifications are subject to change without notice.

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5173KI, TS No.1306-1/2

Equivalent Circuit



TR5,6:Composite device

Test Circuit

