



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 Ta=25°C		[Output 1]	[Output 2]	unit
Maximum Output Current	Iomax	1.6	2.5	A
Maximum DC Input Voltage	vin(dc)max		30	V
Thermal Resistance	θjc		2.8	°C/W
Operating Case Temperature	Tc		105	°C
Storage Temperature	Tstg	-30 to +105		°C
Junction Temperature	Tjmax		150	°C

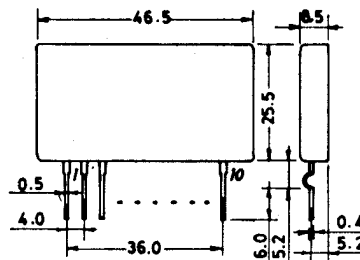
Operating Characteristics at Ta=25°C, at specified test circuit

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

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

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

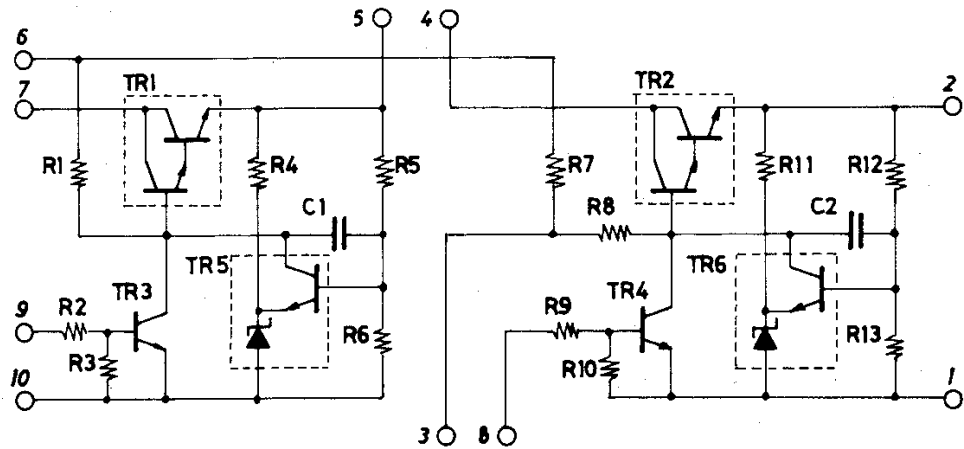
Case Outline 4036
 (unit: mm)



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Equivalent Circuit



TR5,6: Composite device

Test Circuit

