



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.

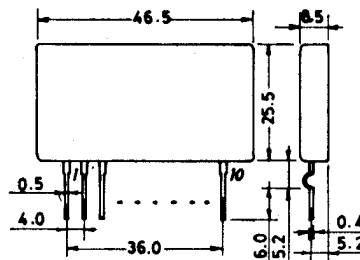
Maximum Ratings at Ta=25°C		[Output 1]	[Output 2]	unit
Maximum Output Current	Iomax	1.6	2.5	A
Maximum DC Input Voltage	vin(dc)max		30	V
Thermal Resistance	θjc		2.8	°C/W
Operating Case Temperature	Tc		105	°C
Storage Temperature	Tstg	-30 to +105		°C
Junction Temperature	Tjmax		150	°C

**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			35
Output Regulation	*2			35	mV/A
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  $2.0A$

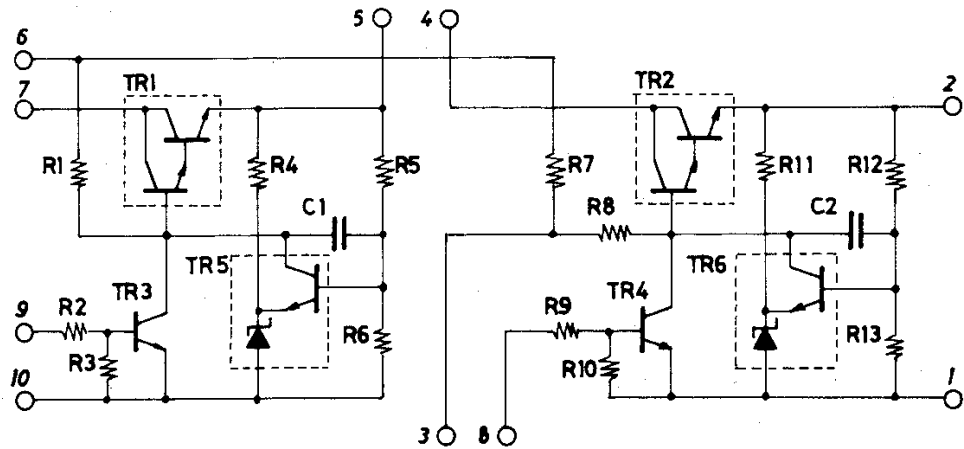
**Case Outline 4036**  
 (unit:mm)



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.

Equivalent Circuit



TR5,6: Composite device

Test Circuit

