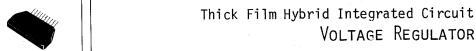


No. 1146

STK5314



## **Features**

- 2-output/1-package voltage regulator fabricated on Sanyo's original IMST substrate
- Provides cutoff function to cut off output voltage according to external signal.
- Output voltages of 2 outputs are set.

Maximum Ratings/T <sub>a</sub> = 25°C		Output 1	Output 2	unit	
Maximum DC flow-in voltage	V <sub>i</sub> (DC) max	$\rightarrow$	30	V	
Operating case temperature	TC	$\rightarrow$	105	°C	
Maximum output current	l <sub>o</sub>	1.6	4.0	A	
Thermal resistance	$\theta_{i-c}$	2.8	2.4	°C/W	
Junction temperature	T <sub>i</sub>	· -	150	°C	
Storage temperature	T <sub>sta</sub>	- · · · -	<b>−30 ~ +105</b>		

Operating Characteristics/ $T_a = 25$ °C		Output 1		Output	2		
			min typ	max	min ty	p max	unit
Output voltage setting	$V_{\mathbf{o}}$	* 1	12.05±0.1		12.0±0.	3	V
Input regulation	•	*2	20		2	0	mV/V
Load regulation		*3	30		3	0	mV/A
Pulse load regulation		*1, Output 2 lo	= 3A		11.6		V
Temperature coefficient		*1		0.02		0.02	%/°C
Ripple voltage	$V_{rp}$	*1		1 .		20	mVrms
Output residual voltage at cutoff		* 1		0.3		0.1	V

Output cutoff characteristic

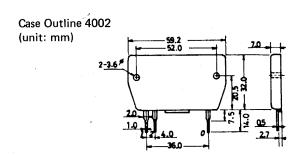
\*1: Application circuit, at V<sub>AC</sub> = 100V 50Hz
Output 1 1.1A input v<sub>i(DC)</sub> = 18.0V typ
Output 2 1.0A input v<sub>i(DC)</sub> = 18.7V typ

\*2 : Application circuit
Output 1 1.1A input v<sub>i(DC)</sub> = 16 to 22V
Output 2 1.0A input v<sub>i(DC)</sub> = 14.5 to 23V

\*3: Application circuit, at V<sub>AC</sub> = 100V 50Hz
Output 1 0 to 1.1A
Output 2 0 to 3A

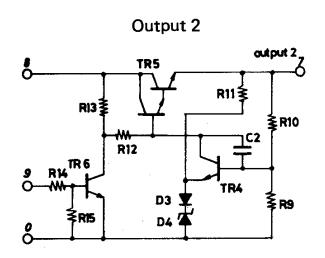
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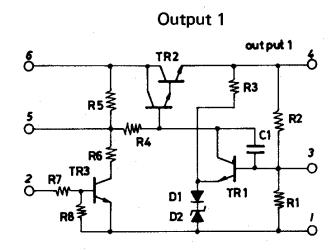
Based on Application Circuit



These specifications are subject to change without notice.

## **Equivalent Circuit**





## **Application**

