

Sanken Hybrid Voltage Regulator Module, STR Series
Sanken Part No: STR54041

Date : October 8, 1985
Specification No. : ES85044

- a. Hybrid Voltage Regulator Module incorporated triple diffused planar transistor chips
- b. Transfer Molded
- c. For TV Switch Mode Power Supply
- d. Fixed Output Voltage

1. Vout SENSE (—)
2. BASE DRIVE (B)
3. IN PUT (C)
4. EARTH (E)
5. Vo CONT

Refer to Figure 1

4. The type number and lot number shall be legitimately marked by white color.



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5. Absolute Maximum Ratings

Description	Symbol	Unit	Ratings
Maximum Peak Input Voltage	V_{IN}	V	900
Input Current	I_{IN}	A	6 (Pulse 12)
Maximum Power Dissipation	P_D	W	27 ($T_c=100^{\circ}\text{C}$) *
Operating Temperature	T_{op}	$^{\circ}\text{C}$	-20-+125 (T_c)
Storage Temperature	T_{stg}	$^{\circ}\text{C}$	-30-+125
Power Transistor Junction Temperature	T_j	$^{\circ}\text{C}$	+150

* Recommendation Case Temperature $T_{op}(T_c)=100^{\circ}\text{C}$ Max

Suggested Silicone Grease

C746: SHIN-ETSU CHEMICAL INDUSTRY CO., LTD.
C747: SHIN-ETSU CHEMICAL INDUSTRY CO., LTD.
YG6260: TOSHIBA SILICONE CO., LTD.
SC102: TORAY SILICONE CO., LTD.



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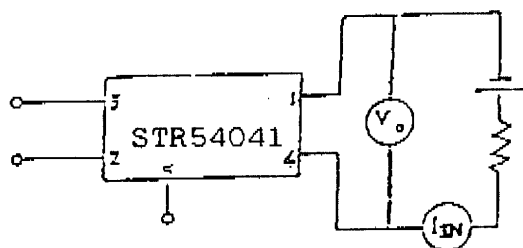
6. Electrical Characteristics 1

Description		Conditions	Ratings
Fixed Output Voltage (Detecting Voltage)		$I_{IN}=7mA$, Measurement Circuit 1	$41.8 \pm 0.5V$
Output Voltage Temperature Coefficient		$T_C = -20 \sim +100^\circ C$, $I_{IN}=7mA$ Measurement Circuit 1	$\pm 2.0mV/^\circ C$
Power Transistor Characteristics	$V_{CE}(sat)$	$I_C=2A$, $I_B=0.4A$	1.0V Max
	h_{FE}	$V_{CE}=4V$, $I_C=1A$	Min 10 Max 30
	I_{CEX}	$V_{CE}=900V$, $V_{BE}=-1.5V$	1.0mA Max
	$V_{BE}(sat)$	$I_C=2A$, $I_B=0.4A$	1.5V Max
	$R_{\theta j-c}$	Between Junction and Stem Upper Surface	1.8 $^\circ C/W$
	Switching Time	Measurement Circuit 2	t_s 7 μsec Max
			t_f 1.0 μsec Max

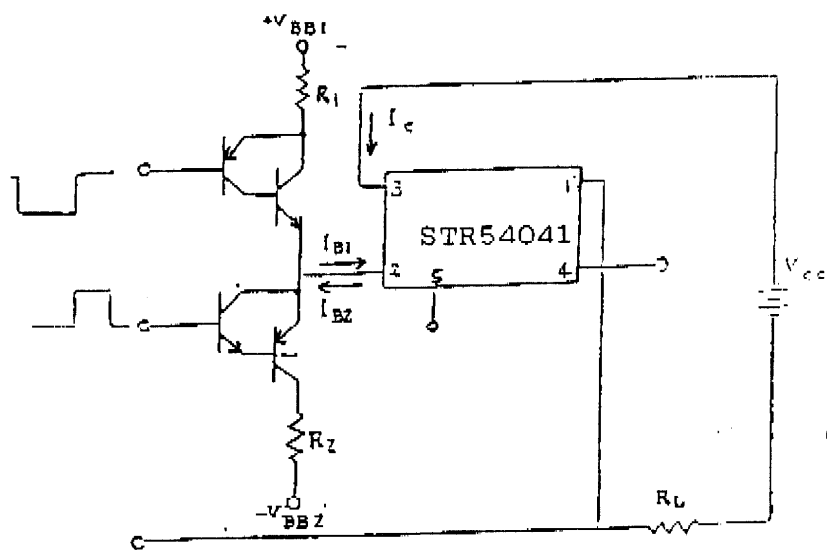


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Measurement Circuit 1.

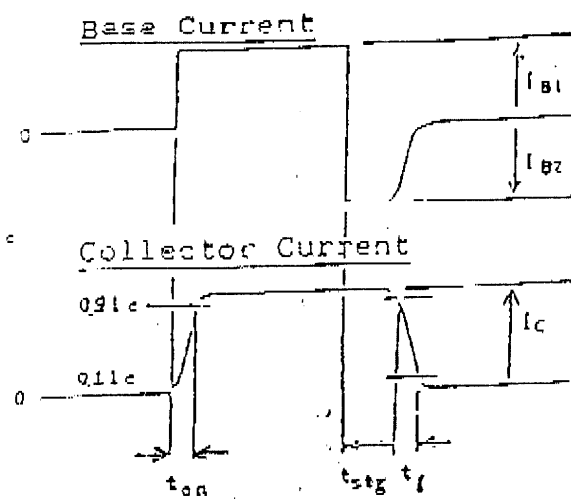


Measurement Circuit 2



$$I_c = 2A, R_L = 50\Omega$$

$$I_{B1} = 300mA, I_{B2} = 1.0A$$



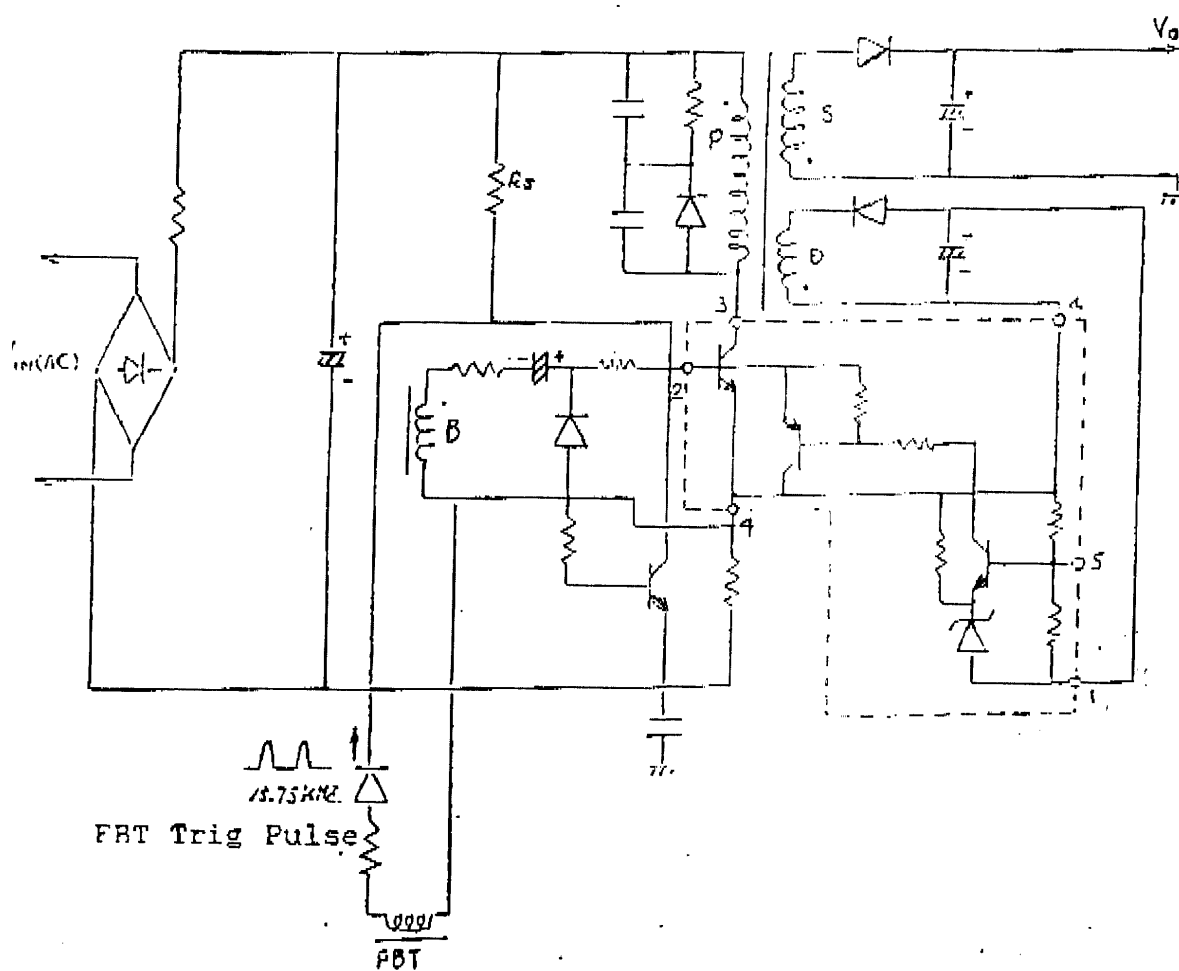
7. Electrical Characteristics 2

Description	Conditions	Ratings
Output Voltage	$V_{IN} = 220V, I_o = 0.5A$ Actual Working Circuit 1.	$114.5 \pm 1.5V$
Line Regulation	$V_{IN} = 180 \sim 280V, I_o = 0.5A$ Actual Working Circuit 1	Initial Value $\pm 1V$
Load Regulation	$V_{IN} = 220V, I_o = 0.3A \sim 0.5A$ Actual Working Circuit 1.	Initial Value $\pm 2V$



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Actual Working Circuit 1.
(Reference Circuit Diagram)



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