SanKon

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SPECIFICATIONS

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

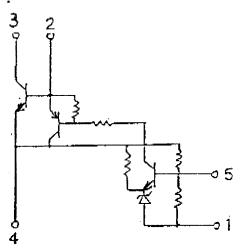
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Date : October 8, 1985 Specification No. : ES85044

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1. Features:

- 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
- 2. Equivalent Circuit



- 1. Vout SENSE (--)
- 2. BASE DRIVE (B)
- 3. IN PUT (C)
- 4 EARTH (E)
- 5. Vo CONT
- 3. Outline Drawing, Marking and Pin Connections

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	VIN	V	900
Input Current	IN	A	6(Pulse 12)
Maximum Power Dissipation	Рр	W	27 (Tc=100°C)*
Operating Temperature	T _{op}	°c	-20-+125 (Tc)
Storage Temperature	Tstg	°C	-30~+125
Power Transistor Junction Temperature	Tj	- °C	+150

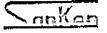
* Recommendation Case Temperature Top(Tc)=100 °C Max

Suggested Silicone Grease

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C746:	SHIN-ETSU CHEMICAL INDUSTRY CO., SHIN-ETSU CHEMICAL INDUSTRY CO.,	, LTD. , LTD. ·
VG6260:	TOSHIBA SILICONE CO., LTD. TORAY SILICONE CO., LTD.	,
Polos.		



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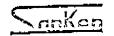
5. Electrical Characteristics 1

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Fixed Output Voltage (Detecting Voltage)		IIN=7mA, <u>Circuit</u>	41.8±0.5V
Out Ten	put Voltage nperature Coefficient	T _C = -20-+100°C, L _{IN} -7mA Megsurement Circuit 1	±2.0mV/°C
	V _{CE} (sat)	I _C =2A, I _B =0.4A	1.0V Max
$ \begin{array}{c} $	h _{FE}	$V_{CE} = 4V$, $I_C = 1A$	Min 10 Max 30
	I _{CEX}	V _{CE} = 900V.V _{BE} =-1.5V	1.OmA Max
	V _{BE} (sat)	$I_{C}=2A$, $I_{B}=0.4A$	1.5V Max
	R⊖j-c	Between Junction and Stem Upper Surface	1.8°C/W
		Measurement Circuit 2 ts	7µsec Max
	Switching Time		1.0µsec Max



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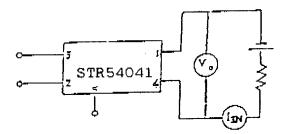
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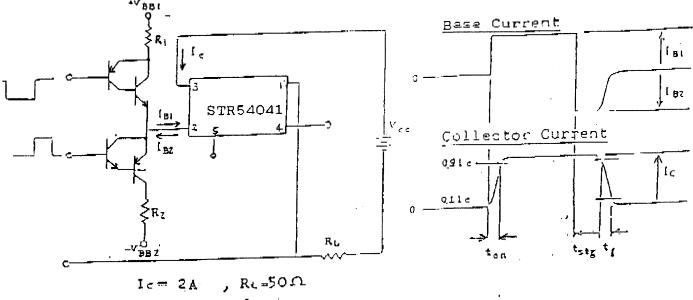
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Measurement Circuit 1.



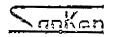
Measurement Circuit 2



Is:=300mA. Is=1.0A

7. Electrical Characteristics 2

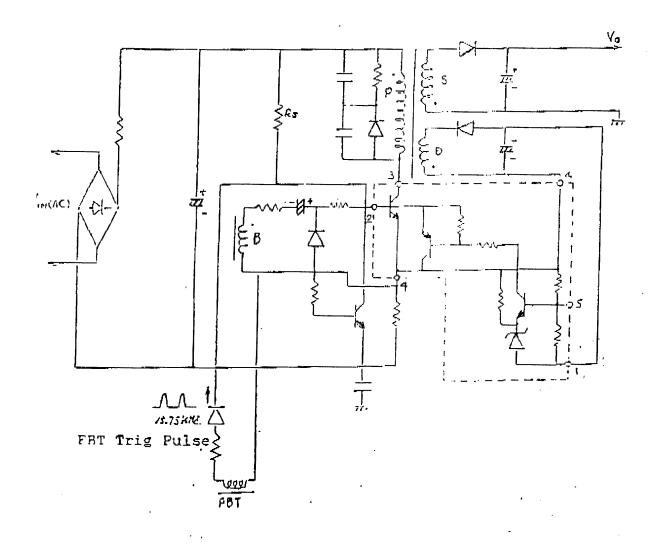
Description	Conditions	Ratings 114.5±1.5V	
Output Voltage	V _{IN} =220V, Io=0.5A Actual Working Circuit 1.		
Line Regulation	VIN=180~280V, 10-0.5A Actual Working Circuit 1	Initial Value±1V.	
Load Regulation	V _{IN=220V} , Io=0.3A~0.5A Actual Working Circuit 1	Initial Value±2V	



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Actual Working Circuit 1. (Reference Circuit Diagram)

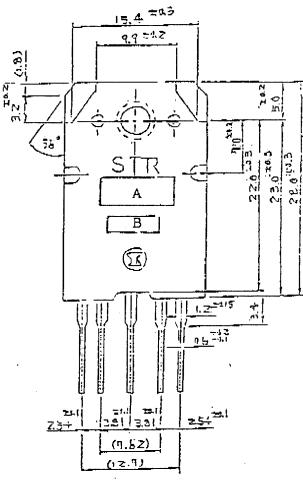


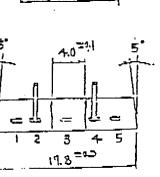
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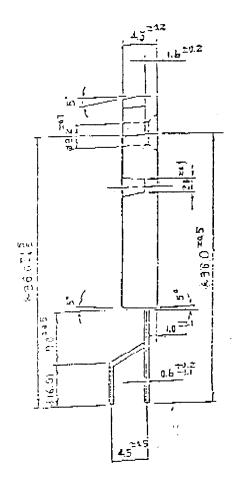
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Figure 1.





- 1. Vout SENSE (-)
- 2.BASE DRIVE
- 3.IN PUT
- 4.EARTH
- _ __



- A. Type Number : 54041
- B. Lot Number 1st letter: The last numerical figure of calendar year 2nd letter: Month (1 to 9 for Jan to Sep., 0 for Oct., N for Nov., D for Dec.) 3rd. 4th letter: Date