



## 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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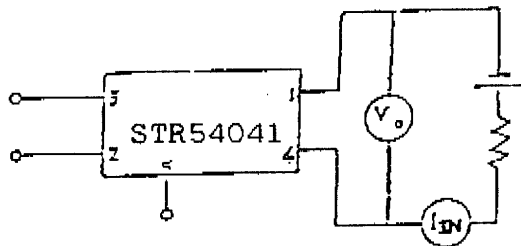
## 6. Electrical Characteristics 1

Description		Conditions	Ratings
Fixed Output Voltage (Detecting Voltage)		$I_{IN}=7\text{mA}$ , Measurement Circuit 1	$41.8\pm0.5\text{V}$
Output Voltage Temperature Coefficient		$T_C = -20\text{--}+100^\circ\text{C}$ , $I_{IN}=7\text{mA}$ Measurement Circuit 1	$\pm 2.0\text{mV}/^\circ\text{C}$
Power Transistor Characteristics	$V_{CE}(\text{sat})$	$I_C=2\text{A}$ , $I_B=0.4\text{A}$	1.0V Max
	$h_{FE}$	$V_{CE}=4\text{V}$ , $I_C=1\text{A}$	Min 10 Max 30
	$I_{CEX}$	$V_{CE}=900\text{V}$ , $V_{BE}=-1.5\text{V}$	1.0mA Max
	$V_{BE}(\text{sat})$	$I_C=2\text{A}$ , $I_B=0.4\text{A}$	1.5V Max
	$R_{\theta j-c}$	Between Junction and Stem Upper Surface	1.8 $^\circ\text{C}/\text{W}$
	Switching Time	Measurement Circuit 2	$t_s$ 7 $\mu\text{sec}$ Max
			$t_f$ 1.0 $\mu\text{sec}$ Max

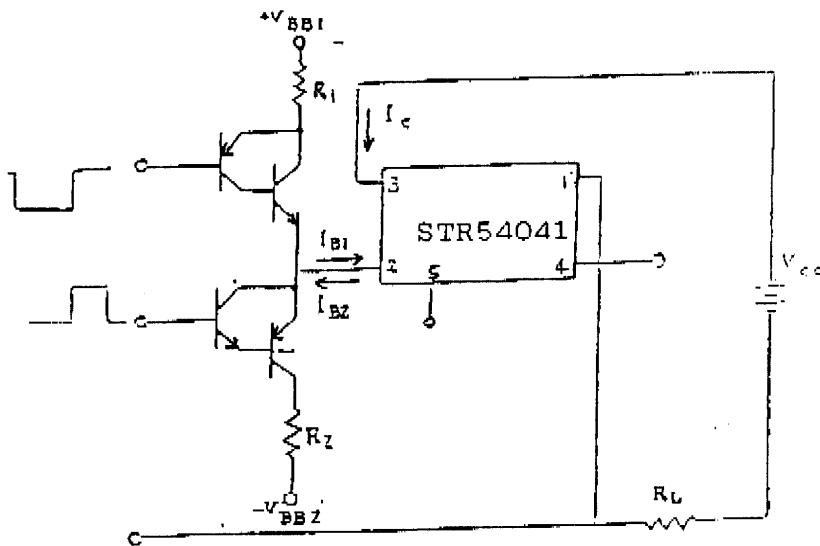


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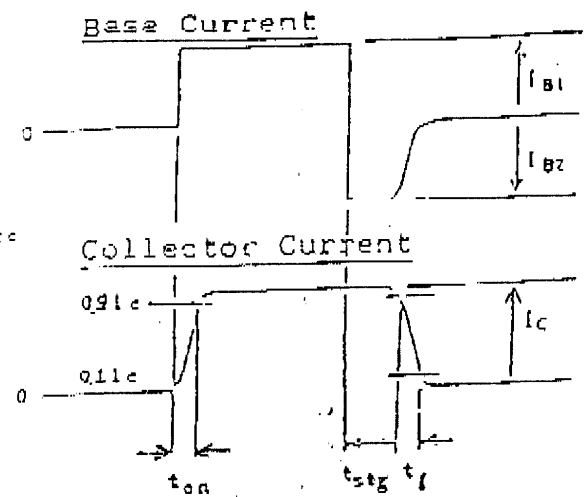
Measurement Circuit 1.



Measurement Circuit 2

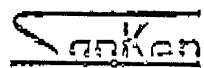


$I_c = 2A$  ,  $R_L = 50\Omega$   
 $I_{B1} = 300mA$  ,  $I_{B2} = 1.0A$



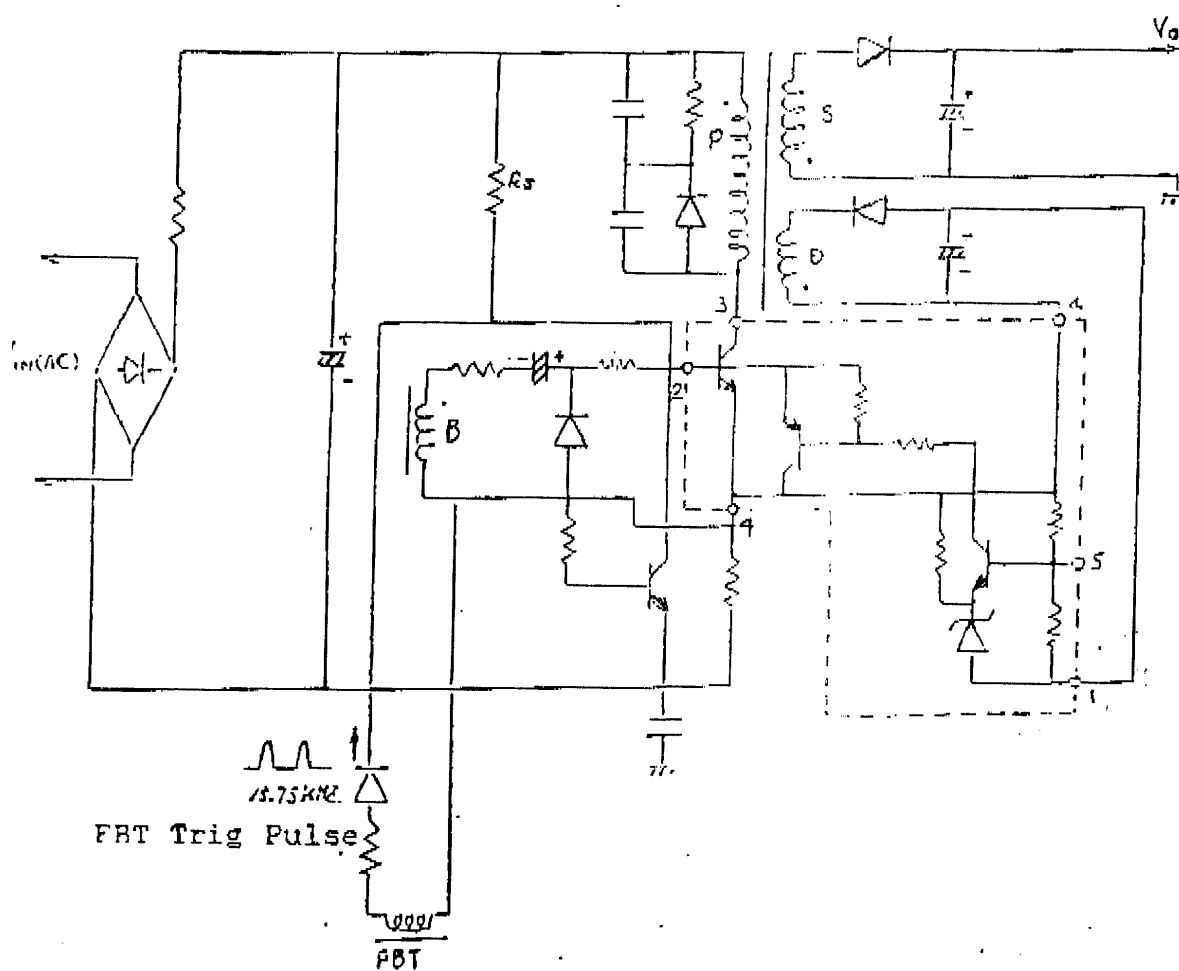
## 7. Electrical Characteristics 2

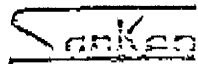
Description	Conditions	Ratings
Output Voltage	$V_{IN} = 220V$ , $I_o = 0.5A$ Actual Working Circuit 1.	$114.5 \pm 1.5V$
Line Regulation	$V_{IN} = 180 \sim 280V$ , $I_o = 0.5A$ Actual Working Circuit 1	Initial Value $\pm 1V$
Load Regulation	$V_{IN} = 220V$ , $I_o = 0.3A \sim 0.5A$ Actual Working Circuit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



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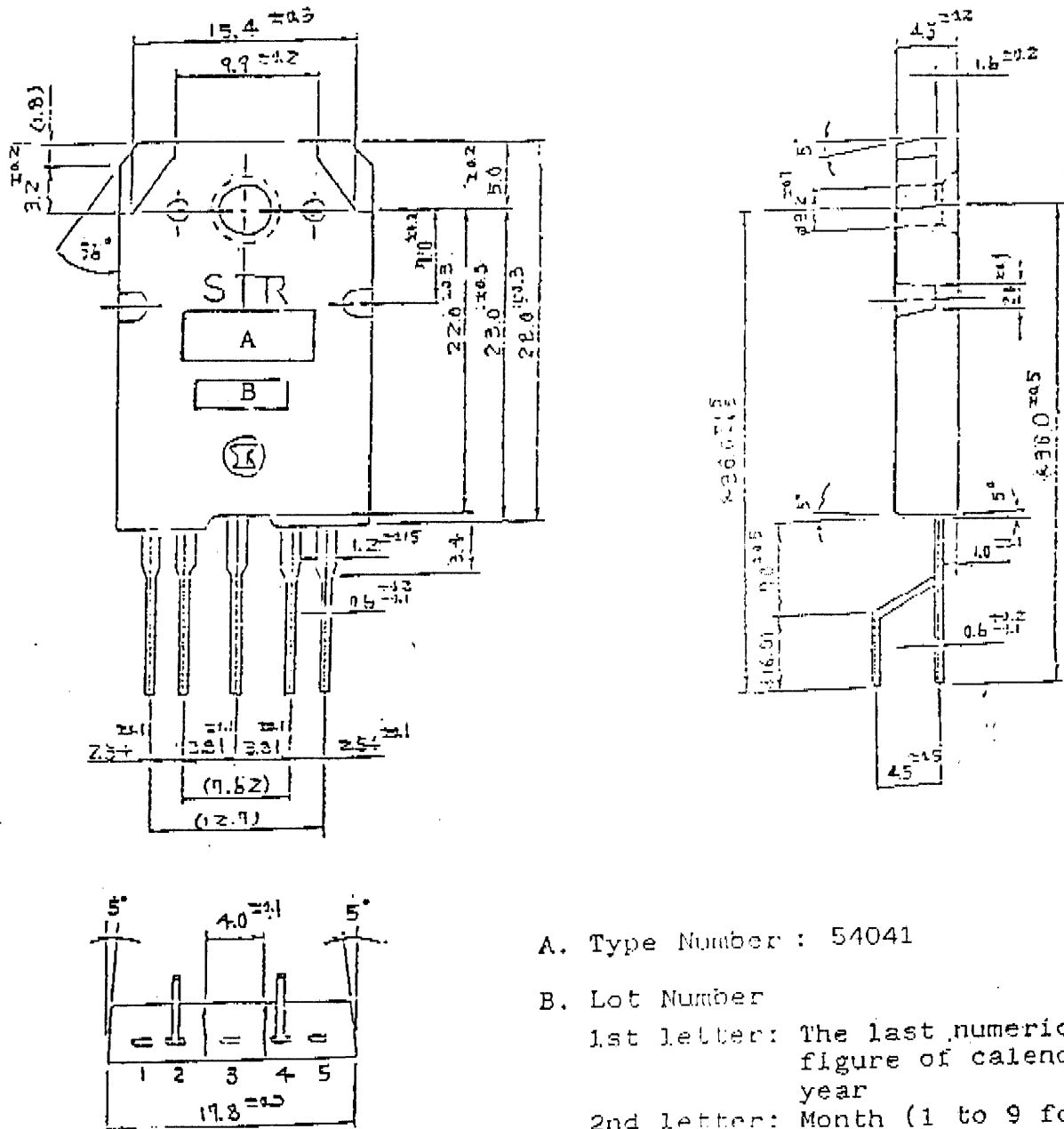
Actual Working Circuit 1.  
(Reference Circuit Diagram)





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Figure 1.



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.,  
O for Oct.,  
N for Nov.,  
D for Dec.)

3rd, 4th letter: Date

1. Vout SENSE (-)

2. BASE DRIVE

3. IN PUT

4. EARTH