

Type	Silicon Monolithic Bipolar IC
Application	Switching Regulator
Outlines	DIL 16-Pin Plastic Package (                )

Absolute maximum ratings					
#	Item	Symbols	Ratings	Unit	Note
1	Storage temperature	T <sub>stg</sub>	-40 ~ 150	°C	
2	Operating ambient temperature	T <sub>opr</sub>	-25 ~ 80	°C	
3	Operating ambient pressure	P <sub>opr</sub>	1.0 ± 0.6	kg/cm <sup>2</sup>	
4	Operating constant gravity	G <sub>opr</sub>	1,000	G	
5	Operating shock	S <sub>opr</sub>	500	G	
6	Supply voltage	V <sub>cc</sub>	22	V	
7	Supply current	I <sub>cc</sub>	22	mA	
8	Power dissipation	P <sub>D</sub>	480	mW	T <sub>a</sub> =75°C

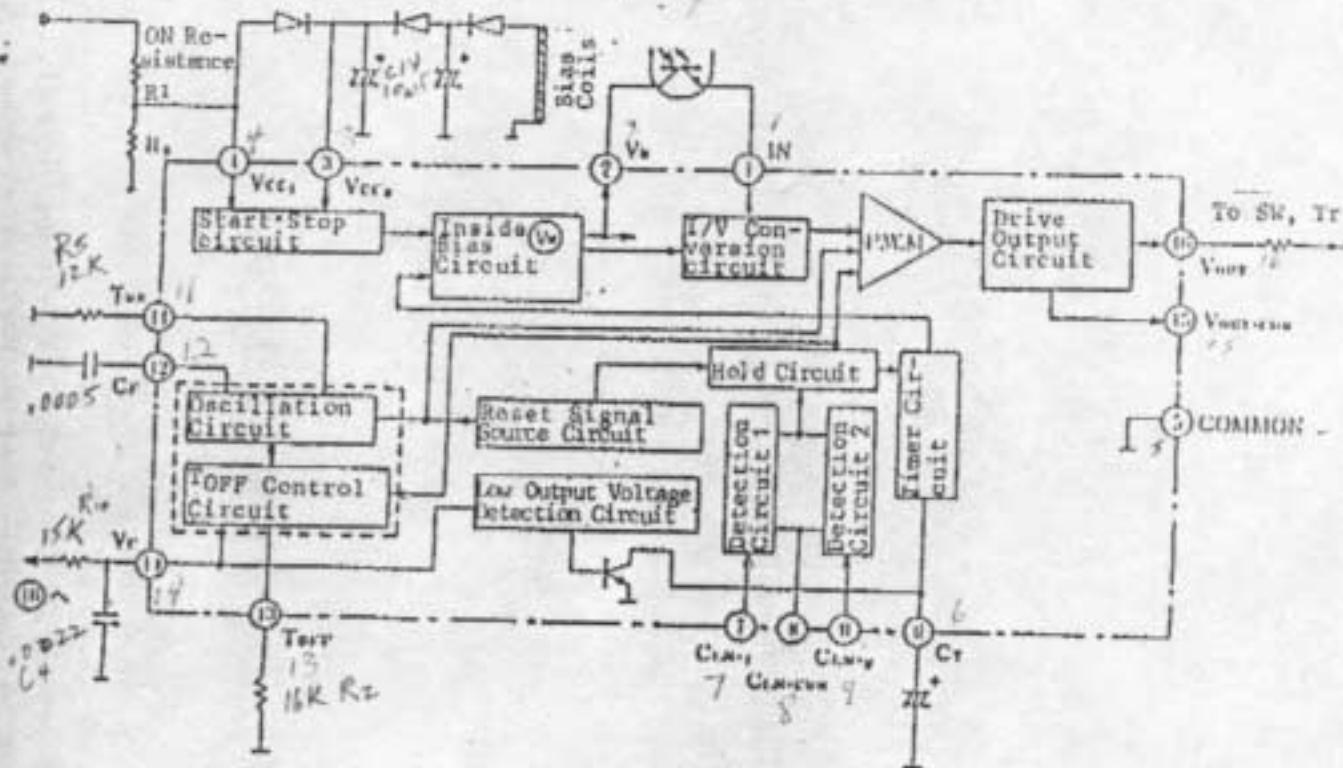
Operating supply voltage range	V <sub>cc</sub>	12 V ~	22 V
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Note) The temperature of all items shall be T<sub>a</sub>=25°C except 1. Storage temperature, 2. Operating ambient temperature and 8. Power Dissipation is based on T<sub>a</sub>=25°C.

Note) Any pin which is not described should not be connected externally.  
Concerning Circuit Current,  $\oplus$  means the current flowing into IC  
and  $\ominus$  does that flowing out of IC.

Note) Duty:10% or less  
ON Time:10msec or less

## [Circuit function block diagram]



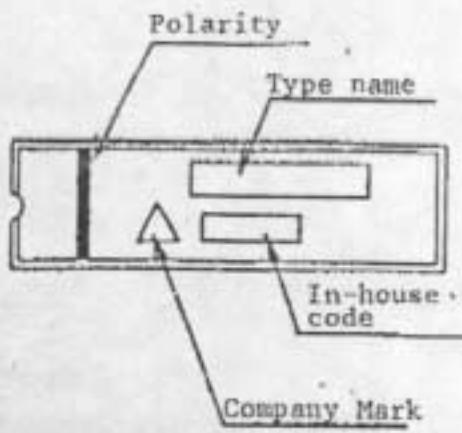
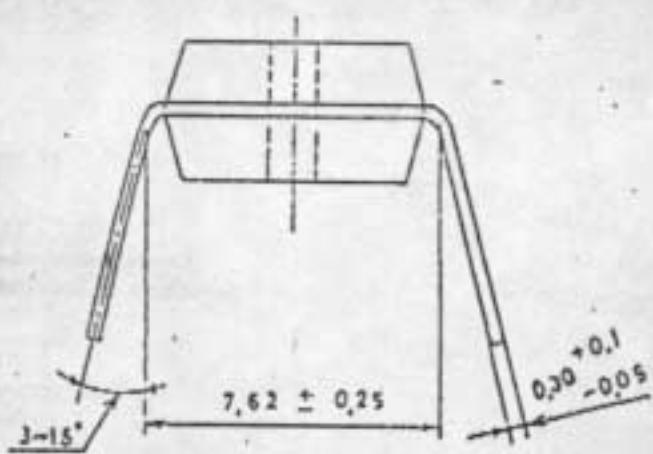
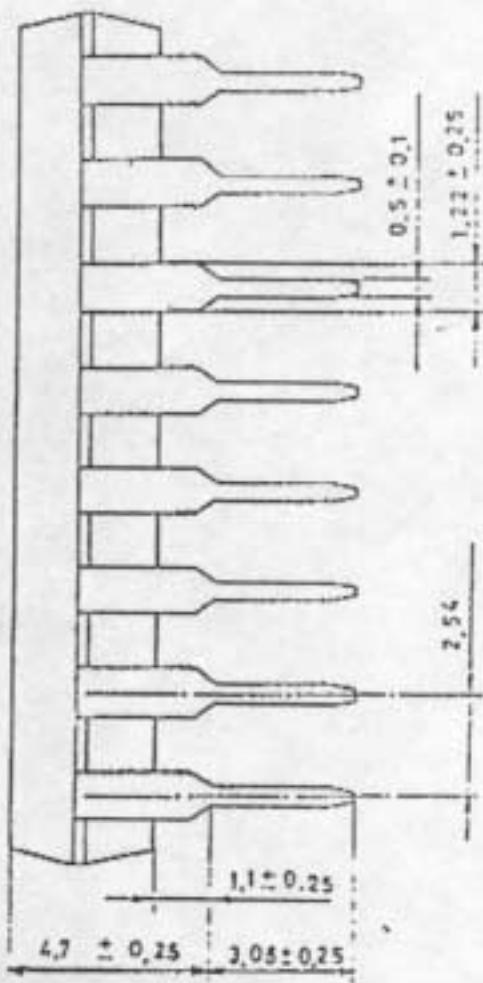
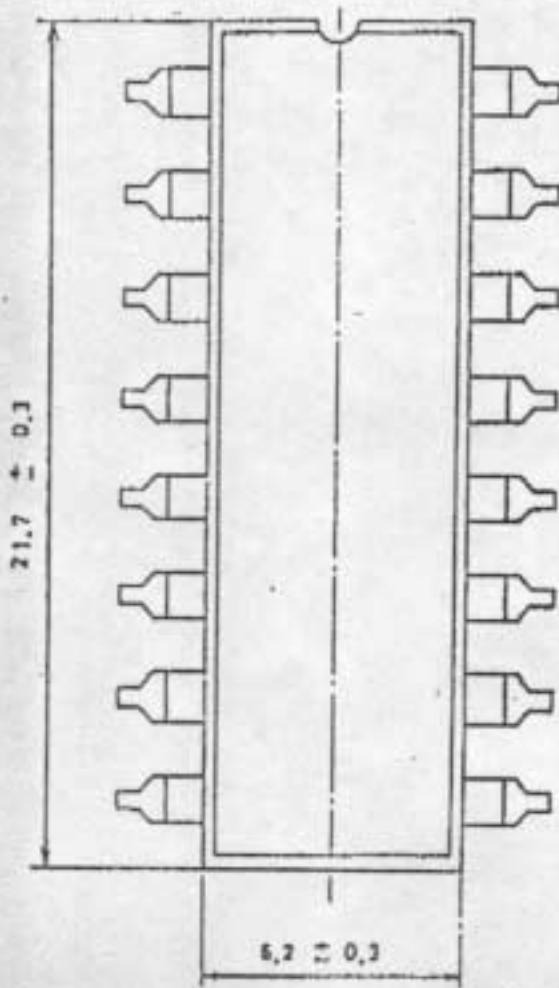
(◎ Non-connected Pin)

## [Pin function description]

Pin No.	Pin Description	Pin No.	Pin Description
1	Photo transistor IN	10	NC
2	Photo transistor V <sub>B</sub>	11	T <sub>ON</sub>
3	Vcc 2	12	C <sub>F</sub>
4	Vcc 1	13	T <sub>OFF</sub>
5	COMMON	14	V <sub>F</sub>
6	C <sub>LM-1</sub> 2.2 uF	15	V <sub>OUT-COM</sub>
7	C <sub>LM-COM</sub>	16	V <sub>OUT</sub>
8	C <sub>LM-2</sub>	17	—
9	—	18	—

Package name	E - 16 D
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Unit: mm



E — DILPackage sectional construction diagram

No.	Description
1	Epoxy resin
2	Gold line
3	Die
4	Comb material (Iron)
5	Lead surface process (Solder plating)

