

# Near edge thermal printhead (with thermal historical control)

# SH3002-DC80A

SH3002-DC80A achieves high quality print and high reliability, by Rohm unique Step Free Technology.

SH3002-DC80A is near edge type thermal head, whose heater line is formed at the angle of the glaze.

Therefore, it is applicable to large diameter of platen and heat-peeling ribbon. Especially it is suitable to the packaging market that requires ultra high speed printing over 1,300mm/s.

#### Applications

Barcode label printers

Packaging printers

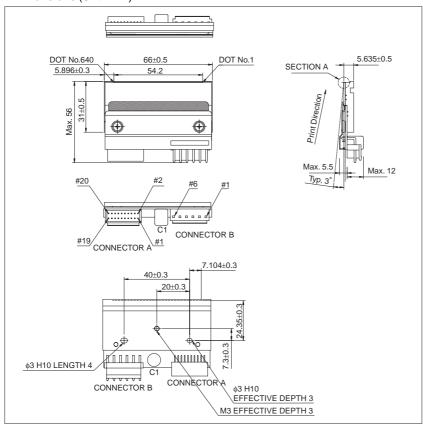
Ticket printers

General purpose portable printers

#### Features

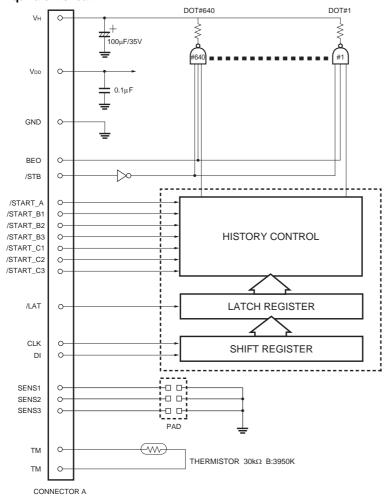
- 1) ROHM unique "STEP FREE" structure contributes to better anti-corrosion characteristics, less scratch break down, and better heat efficiency.
- 2) Against the printing surface, the print head should be used at a slant during a print due to its structure, therefore, it is applicable to heat-peeling ribbon in high speed.
- 3) It has good anti-ESD characteristic by applying hard, conductive layer as the heat element protective coating.
- 4) Mounting space can be minimized, which contributes to the downsizing of the printer.
- 5) It has built-in history control and pre-heat function. It is possible to print at over 1,300mm / s.

#### ●Dimensions (Unit:mm)



SH3002-DC80A Data Sheet

# ●Equivalent circuit



### Pin configuration

No.	Circuit	No.	Circuit	
1	GND	2	N.C.	
3	V <sub>DD</sub>	4	TM	
5	TM	6	SENS3	
7	/START_C3	8	/START_C2	
9	/START_C1	10	/START_A	
11	SENS2	12	SENS1	
13	/START_B3	14	/START_B2	
15	/START_B1	16	BEO	
17	/STB	18	/LAT	
19	CLK	20	DI	

CONNECTOR B				
Circuit				

# Characteristics

Parameter		Typical	Unit
Effective printing width		108.416	mm
Dot pitch	_	0.0847	mm
Total dot number	-	1280	dots
Average resistance value	Rave	550	Ω
Applied voltage	V <sub>H</sub>	24	V
Applied power	Po	0.81	W / dot
Print cycle	SLT	0.141	ms
Maximum number of dots energized simultaneously	_	1280	dots
Maximum clock frequency	-	10	MHz
Maximum roller diameter	-	-	mm
Running life / pulse life		150 / 10 <sup>8</sup>	km / pulses
Operating temperature		5 to 45	°C

#### **Notes**

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