

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.

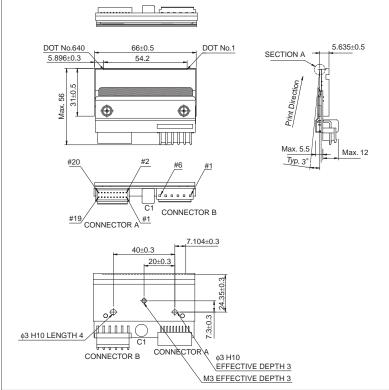
Applications

Barcode label printers Packaging printers Ticket printers General purpose portable printers

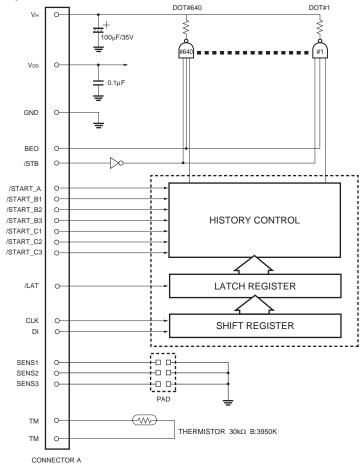
Features

- 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.





Equivalent circuit



Pin configuration

CONNECTOR A							
No.	Circuit	No.	Circuit				
1	GND	2	N.C.				
3	Vdd	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				
No.	Circuit			
1	Vн			
2	Vн			
3	Vн			
4	GND			
5	GND			
6	GND			

Characteristics

Parameter		Typical	Unit
Effective printing width		108.416	mm
Dot pitch		0.0847	mm
Total dot number		1280	dots
Average resistance value		550	Ω
Applied voltage		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 ⁸	km / pulses
Operating temperature	-	5 to 45	°C

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Appendix-Rev4.0