

Near edge type thermal printhead(11.81dots / mm) SH3002-DC90A

SH-DC90 series achieves high quality print and high reliability, by Rohm unique Step Free Technology.

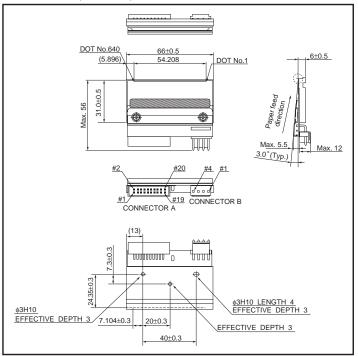
SH-DC90 series is near edge type thermal head, whose heater line is formed at the angle of the glaze. Therefore, peeling-off ribbon at the hot state and large size platen can be used with this thermal head and is best suitable for the packaging printer market which requires the continuous print at high speed.

•Applications Barcode label printers Packaging printers Ticket printers General purpose portable printers

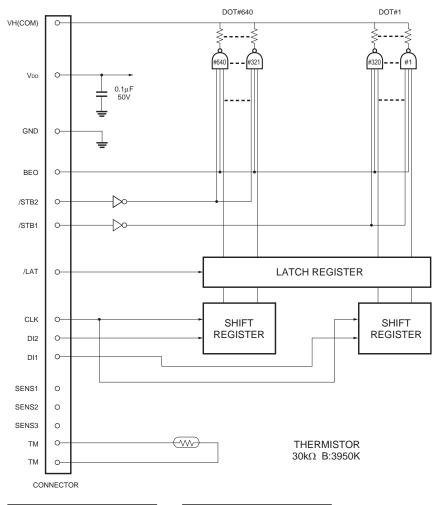
Features

- 1) ROHM unique "STEP FREE" structure contributes to better anti-corrosion characteristics, less scratch break down, and better heat efficiency.
- 2) Thermal head contacts with the media by angle at the print, so that good print quality can be obtained for the thick media.
- 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.

•Dimensions (Unit : mm)



•Equivalent circuit



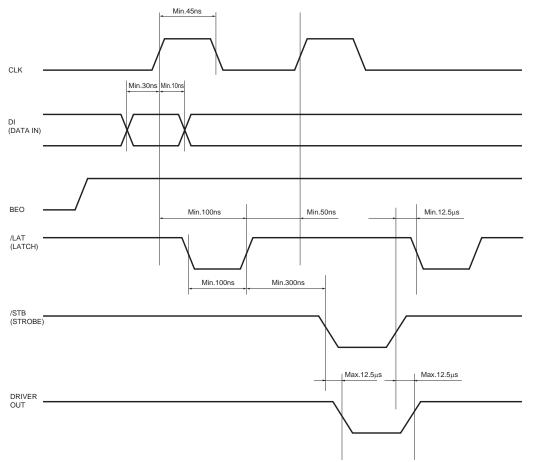
DI No.	DOT No.	STB No.	DOT No.	
DI2	640 to 321	/STB 2	640 to 321	
DI1	320 to 1	/STB 1	320 to 1	

Pin configuration

HIROSE						
No.	Circuit	No.	Circuit			
1	Vdd	2	BEO			
3	GND	4	DI2			
5	N.C.	6	CLK			
7	LAT	8	N.C.			
9	N.C.	10	DI1			
11	N.C.	12	GND			
13	Vdd	14	STB2			
15	STB1	16	ТМ			
17	ТМ	18	SENS1			
19	SENS2	20	SENS3			

JST	
No.	Circuit
1	VH
2	VH
3	GND
4	GND

•Timing chart



Characteristics

Parameter		Typical	Unit
Effective printing width		54.208	mm
Dot pitch		0.0847	mm
Total dot number		640	dots
Average resistance value		850	Ω
Applied voltage	V _H	24	V
Applied power	Po	0.59	W / dot
Print cycle	SLT	0.28	ms
Maximum number of dots energized simultaneously	-	640	dots
Maximum clock frequency	-	10	MHz
Maximum roller diameter	-	φ50	mm
Running life / pulse life	-	150 / 1x10 ⁸	km / pulses
Operating temperature	-	5 to 45	°C



Thank you for your accessing to ROHM product informations. More detail product informations and catalogs are available, please contact your nearest sales office.

ROHM Customer Support System

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Appendix-Rev4.1