High speed thermal printhead (300 dots / inch) **SE3002-DC94A**

High speed, high quality, and high durability are achieved by using step free structure with high performance partial glaze and highly conductive overcoat layer. SE300*-DC94A series are lined up which can accommodate with all types of barcode labeling printers from Direct to Thermal Transfer, normal to high speed (over 300mm/s).

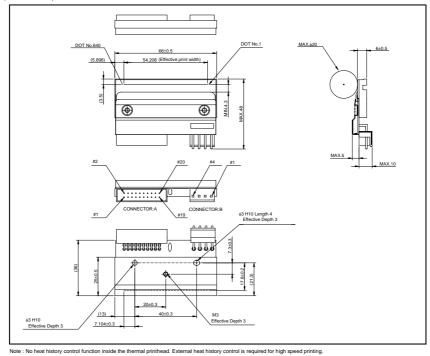
Implementation of ROHM Unique technology, Anti Sticking Treatment, reduces sticking problems (print skip at media feed direction) under the tough print conditions at low print speed, using label media with over coated.

Applications

Bar code printer Label printer Packaging printer ATM Ticket printer

Features

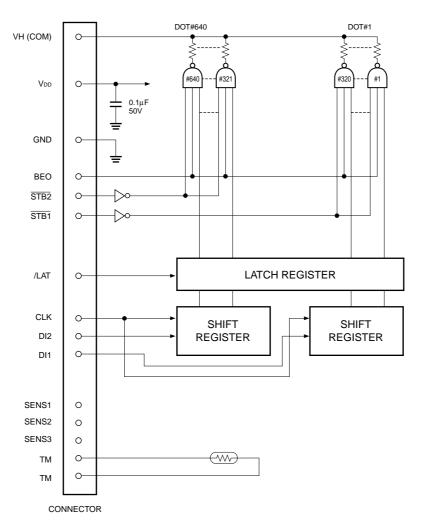
- 1) Anti Sticking Treatment reduces sticking problems and achieves high print quality at any environmental conditions.
- ROHM new technology "STEP FREE" structure will provide, high corrosion resistance, better resistance against scratching damage, high efficiency.
- 3) Standard glazed components to accommodate thick paper.
- 4) Using a hard conductive film as a protective film on the heating element offers excellent resistance to electrostatic damage.



•Dimensions (Unit : mm)

Printheads

•Equivalent circuit



DI No.	DOT No.	STB No.	DOT No.	
DI2	640 to 321	STB2	640 to 321	
DI1	320 to 1	STB1	320 to 1	

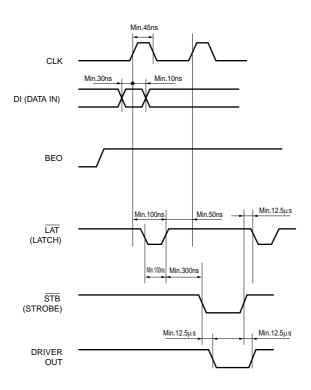
Printheads

•Pin assignments

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

No.	Circuit
1	VH
2	VH
3	VH
4	GND
5	GND
6	GND

•Timing chart



Printheads

Characteristics

Parameter		Typical	Unit
Effective printing width	-	54.2	mm
Dot pitch	-	0.0847	mm
Total dot number	-	640	dots
Average resistance value	Rave	850	Ω
Applied voltage	Vн	24	V
Applied power	Po	0.59	W / dot
Print cycle	SLT	0.42	ms
Maximum number of dots energized simultaneously	-	640	dots
Maximum clock frequency	_	10	MHz
Maximum roller diameter	_	φ 2 0	mm
Running life / pulse life	_	150 / 10 ⁸	km / pulses
Operating temperature	_	5 to 45	°C

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Appendix1-Rev2.0

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