

# Near edge thermal printhead (300 dots / inch)

# SH3002-DC90A

SH-DC90 series was developed with two key structures step-free and near edge for the packaging printer market which requires high speed continuous printing. It is suitable for printers in factory line where high speed 24 hours continuous printing is required.

### Applications

Bar code printer

Label printer

Packaging printer

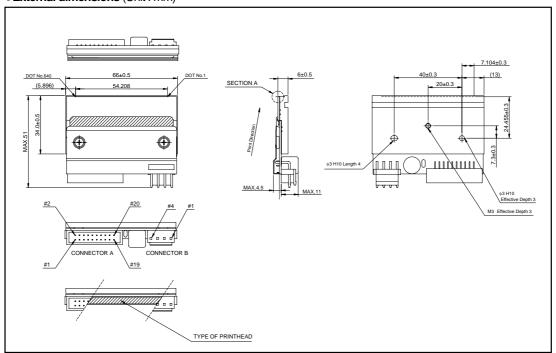
ATM

Ticket printer

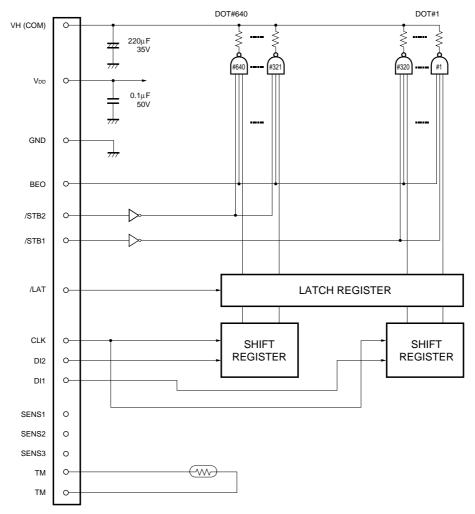
### Features

- 1) ROHM new technology "STEP FREE" structure will provide, high corrosion resistance, better resistance against scratching damage, high efficiency.
- 2) High dot reproducibility with step-free structure.
- 3) Head inclination by near-edge structure, applicable to the large-size platen. Resin type thermal-transfer ink-ribbon can be used.
- 3) High-hardness protect cote type "W-coat" is employed with 150km abrasion life-time.
- 4) Even without history-control, high-speed printing more than 200mm / s can be achieved at 300dpi with clear print image. With history-control, 300mm / s printing is also possible at 300dpi.

### External dimensions (Unit : mm)



# ●Equivalent circuit



DI No.	DOT No.			
DI2	640 to 321			
DI1	321 to 1			

DOT No.		
640 to 321		
320 to 1		



# ●Pin assignments

No.	Circuit	No.	Circuit	
1	V <sub>DD</sub>	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	V <sub>DD</sub>	14	STB2	
15	STB1	16	TM	
17	TM	18	SENS1	
19	SENS2	20	SENS3	

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

# Characteristics

Parameter	Symbol	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	V <sub>H</sub>	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	_	φ50	mm
Running life / pulse life	_	150 / 10 <sup>8</sup>	km / pulses
Operating temperature	_	5 to 45	°C

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