

Ideal for packaging printers requiring high reliability.

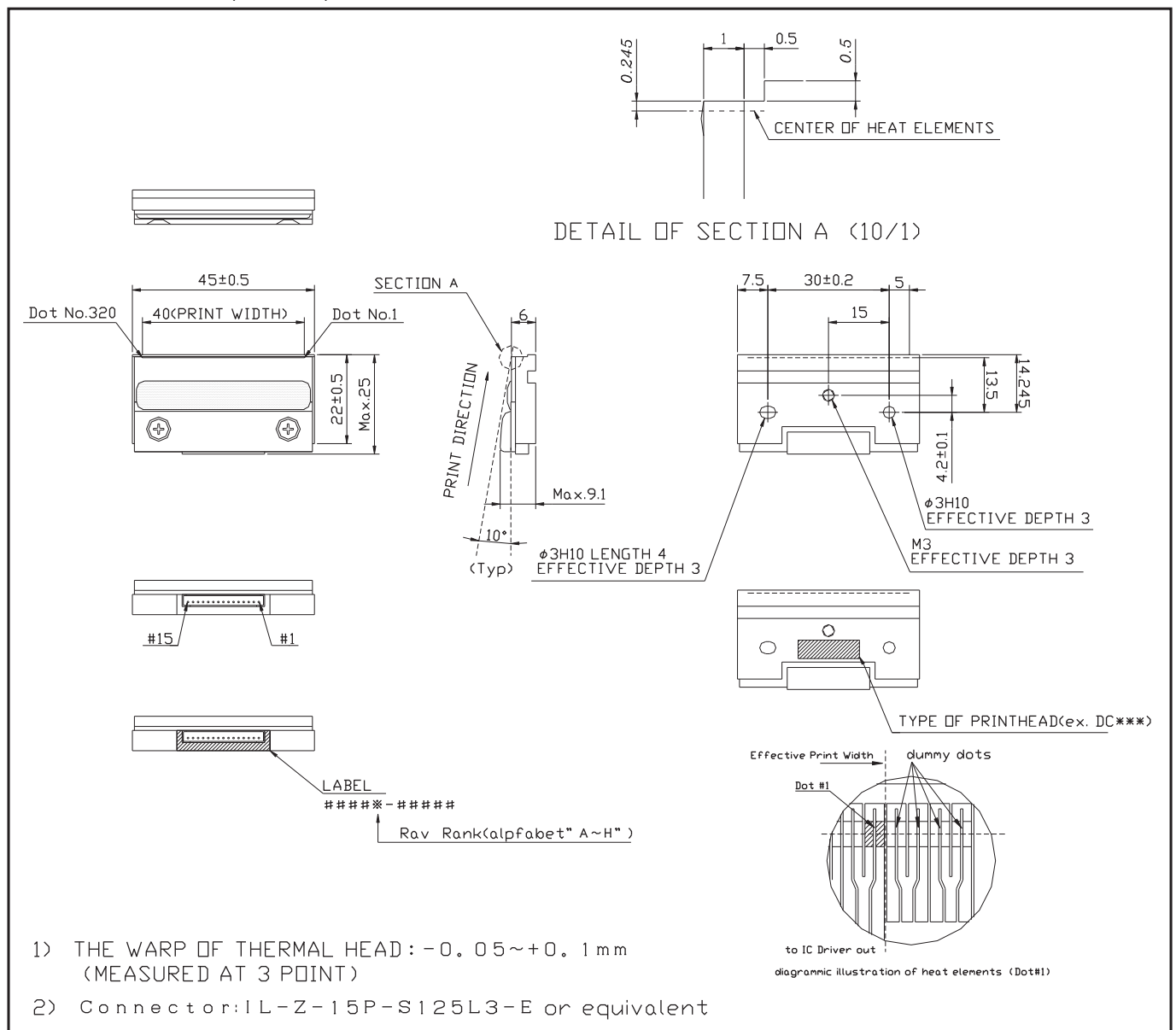
●Applications

Distribution / Food label printers
 Packaging printers
 Date-code printers

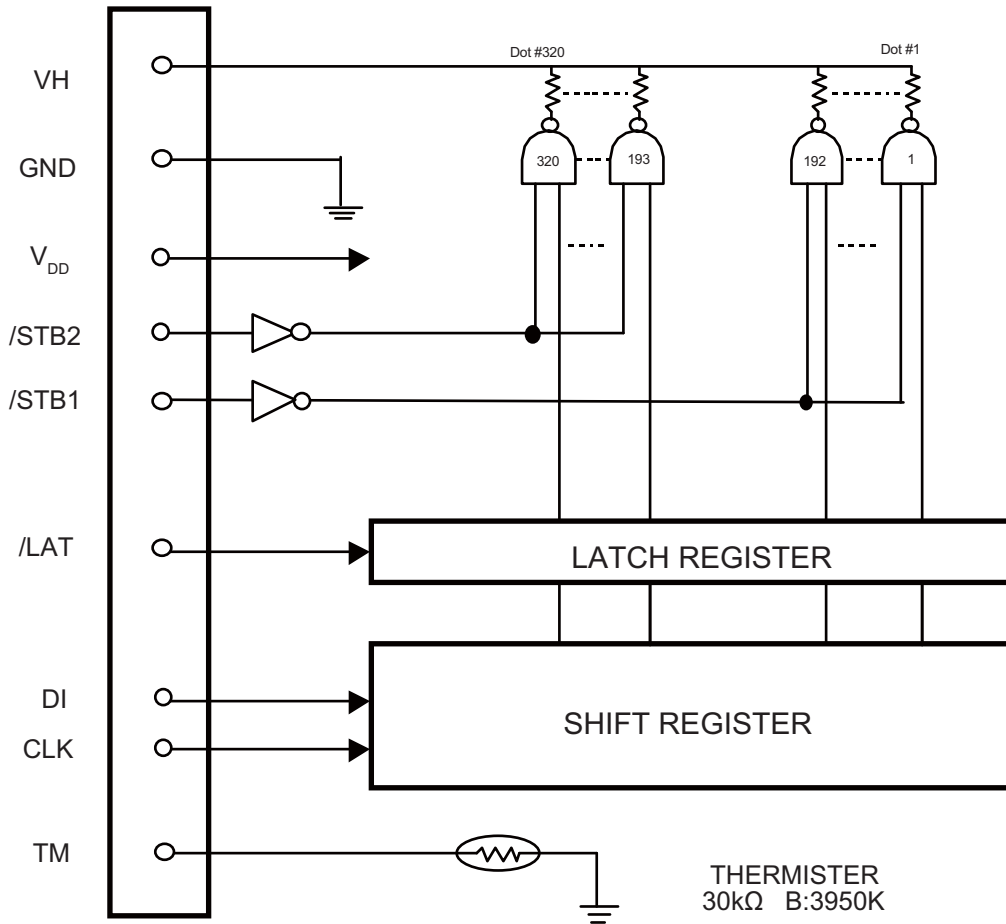
●Features

These thermal heads feature a near-edge structure based on the high-speed, high-quality, reliable step-free SE, SF series, enabling straight path for hand media or high speed printing

●External dimensions (Unit : mm)



●Equivalent circuit



DI, STB DIVISION DOT No. CORRESPONDENCE

DI No.	DOT No.
DI	320 to 1

/STB No.	DOT No.
/STB 2	320 to 193
/STB 1	192 to 1

●Pin assignments

Connector A : IL-Z-15P-S125L3-E (JAE) or equivalent

No.	Circuit
1	V _H
2	V _H
3	/LAT
4	GND
5	GND
6	/STB1
7	V _{DD}
8	/STB2
9	TM
10	GND
11	GND
12	DI
13	CLK
14	V _H
15	V _H

Pin number : Refer to External dimensions

DI: Data In (Serial Input)

CLK : Clock Pulse(Max Transfer Frequency)

/LAT: Data Latch

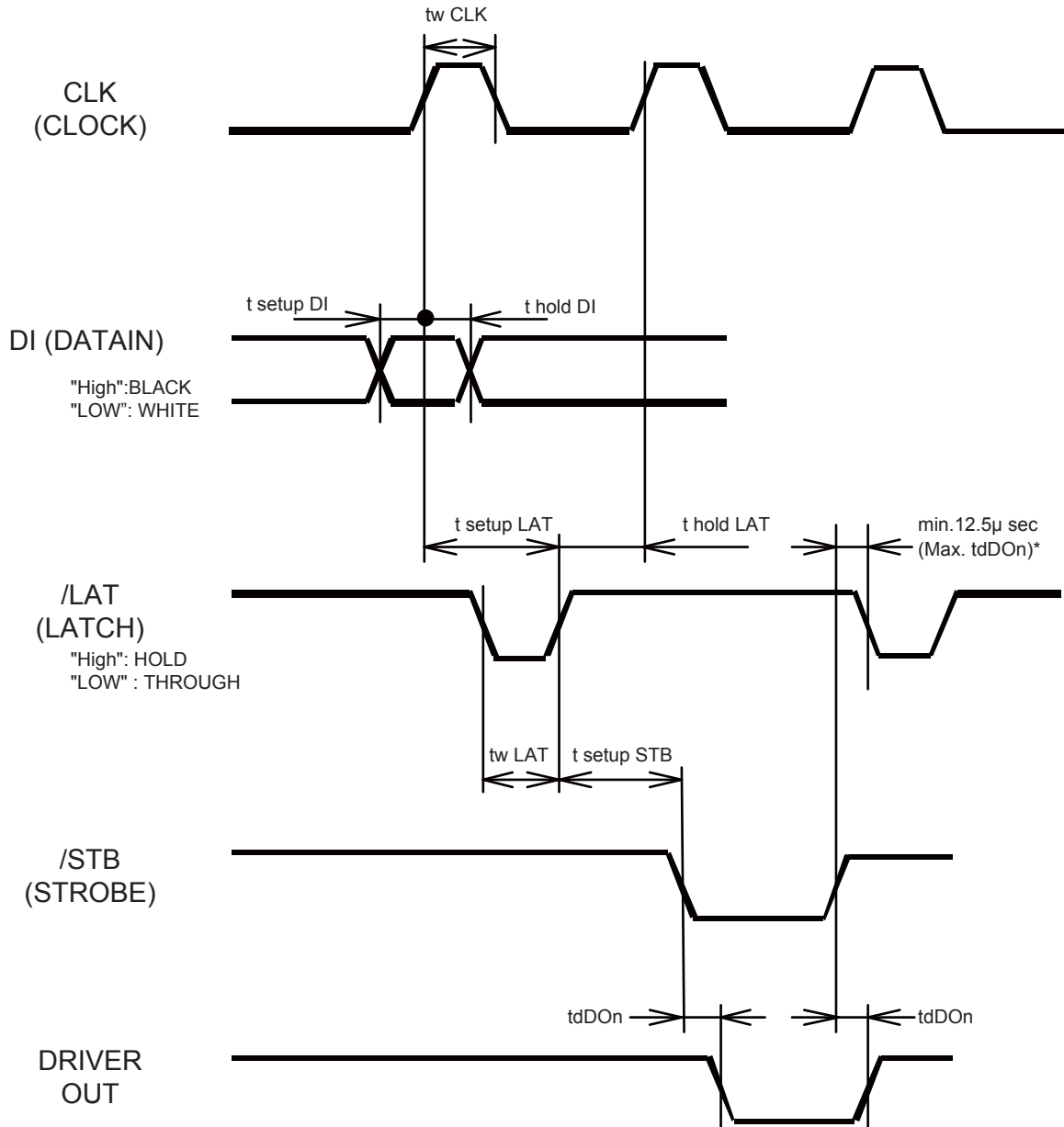
TM: Thermistor

/STBn: Strobe

V_{DD} : Power Supply for Driver IC

N.C. : Non Connection

● Timing Chart



*If delay time for Driver Out can not be secured enough, there is a possibility that VH would fluctuate greatly. Please design the circuit so that VH does not exceed peak voltage (V_p).

●Characteristics

Parameter	symbol	Typical	Unit
Effective printing width	-	40	mm
Dot pitch	-	0.125	mm
Total dot number	-	320	dots
Average resistance value	R_{ave}	850	Ω
Applied voltage	V_H	12	V
Applied power	P_o	0.15	W/dot
Print cycle	SLT	2	ms/line
Pulse width	T_{ON}	1.5	ms
Maximum number of dots energized simultaneously	-	320	dots
Maximum clock frequency	-	10	MHz
Maximum platen diameter	-	∞	mm
Running life / pulse life	-	$50/1 \times 10^8$	Km/pulse
Operating temperature	-	5 to 45	$^{\circ}\text{C}$

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