Additional Devices

TRI-STATE® 7 by 9 Character Generators

General Description

The DM7678/8678 and DM7679/DM8679 are bipolar character generators. A maximum of 64 characters can be displayed in a 7 x 9 dot matrix. Shifted characters can be generated by the on-chip subtractor. On-chip line counter and parallel-in-serial-out shift register reduce package pin-out.

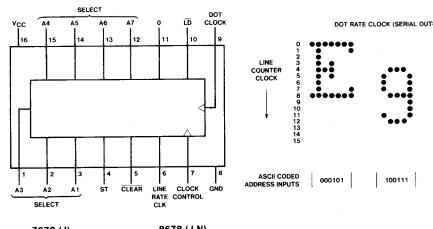
The clear input and the load input are active low. Load is synchronous with the Dot Rate Clock. Both the line rate clock and the dot rate clock are positive triggered. When the strobe input receives a low signal, the character address will be held at the inputs.

Features

- TRI-STATE outputs
- On-chip input latches
- On-chip line counter
- On-chip shift register
- Serial output
- 20 MHz typical clock rate
- Shifted characters

Connection Diagram

Character Display Example





DOT RATE CLOCK (SERIAL OUTPUT) -110011

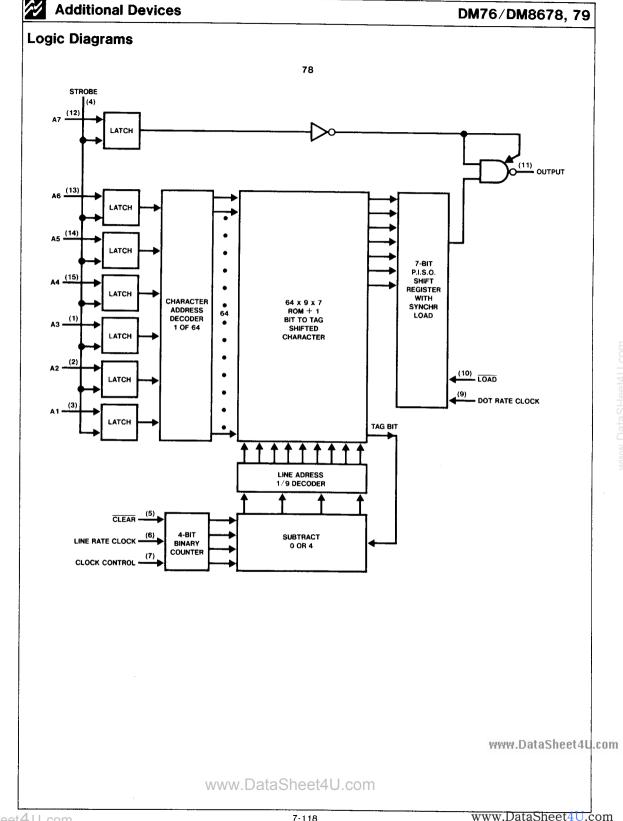
Electrical Characteristics Over recommended operating free-air temperature range (unless otherwise noted)

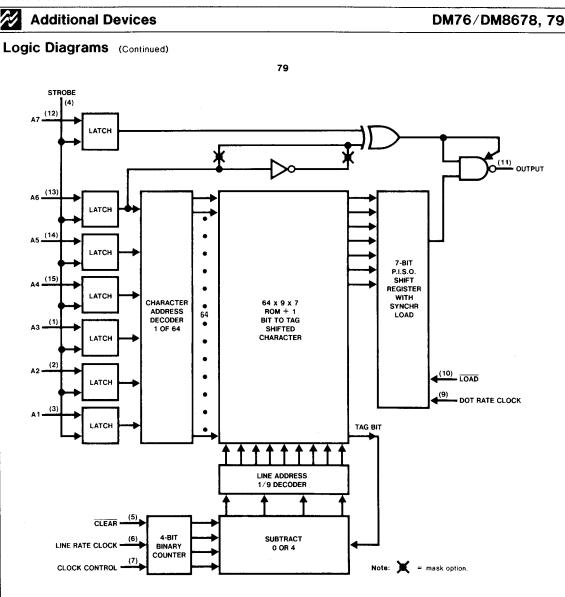
			DM76/86			
Parameter		Conditions	78, 79			Units
			Min	Typ (1)	Max	
VOH	High Level Output Voltage	V _{CC} = Min, I _{OH} = -2 mA	2.4			V
VOL	Low Level Output Voltage	V _{CC} = Min, I _{OL} = 16 mA			0.4	V
hн	High Level Input Current	V _{CC} = Max, V _I = 2.4 V			40	μΑ
lıL	Low Level Input Current	V _{CC} = Max, V _I = 0.4 V			-0.8	mA
lcc	Supply Current	V _{CC} = Max		100		mA
fMAX	Maximum Clock Frequency	V _{CC} = 5 V, T _A = 25°C		20		MHz

Note 1: All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25 ^{\circ}\text{C}$.

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