MOTOROLA MOTOROLA SEMICONDUCTOR TECHNICAL DATA

捷多邦,专业PCB打样工厂,24小时加急出货

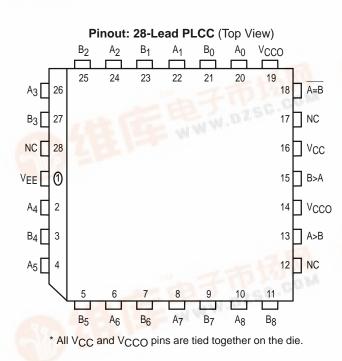
9-Bit Magnitude Comparator

The MC10E/100E166 is a 9-bit magnitude comparator which compares the binary value of two 9-bit words and indicates whether one word is greater than, or equal to, the other.

- 1100ps Max. A=B
- Extended 100E VEE Range of 4.2V to 5.46V WWW.DZSC.COM
- 75kΩ Input Pulldown Resistors

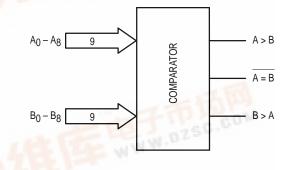


9-BIT MAGNITUDE COMPARATOR



DZSC.COM **FN SUFFIX** PLASTIC PACKAGE CASE 776-02 WWW.DZSC.CO

LOGIC DIAGRAM



PIN NAMES

Pin	Function							
$A_0 - A_8$ $B_0 - B_8$ $A > B$ $B > A$ $A = B$	A Data Inputs B Data Inputs A Greater than B Output B Greater than A Output A Equal to B Output							
- (C-1	(active-LOW)							





MC10E166 MC100E166

DC CHARACTERISTICS ($V_{EE} = V_{EE}(min)$ to $V_{EE}(max)$; $V_{CC} = V_{CCO} = GND$)

		0°C			25°C			85°C				
Symbol	Characteristic	min	typ	max	min	typ	max	min	typ	max	Unit	Condition
ΙΗ	Input HIGH Current			150			150			150	μA	
IEE	Power Supply Current										mA	
	10E		113	156		113	156		113	156		
	100E		113	156		113	156		130	156		

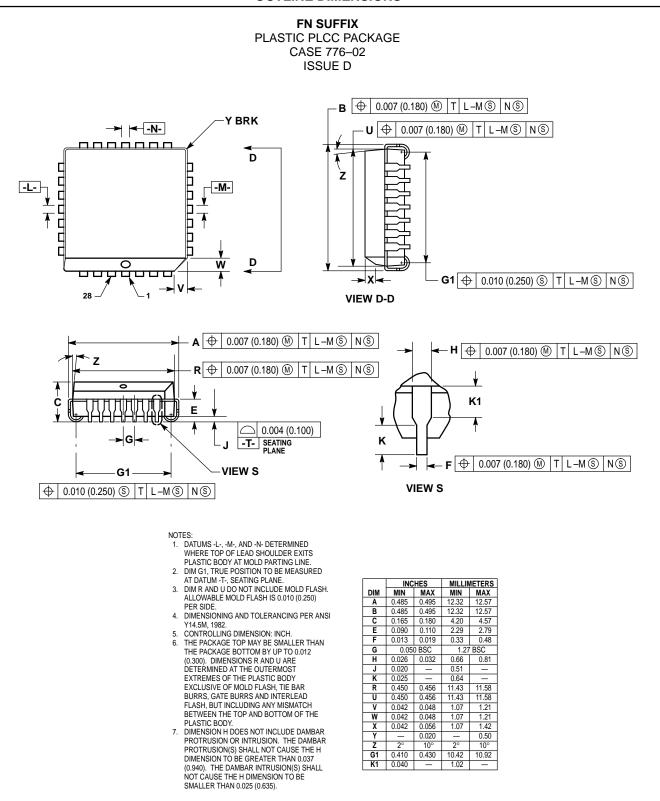
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AC CHARACTERISTICS ($V_{EE} = V_{EE}(min)$ to $V_{EE}(max)$; $V_{CC} = V_{CCO} = GND$)

		0°C			25°C			85°C				
Symbol	Characteristic	min	typ	max	min	typ	max	min	typ	max	Unit	Condition
^t PLH	Propagation Delay to Output										ps	
^t PHL	D to A = B	500	750	1100	500	750	1100	500	750	1100		
	D to $A < B$, $A > B$	500	850	1400	500	850	1400	500	850	1400		
t _r	Rise/Fall Time										ps	
tf	20 - 80%	300	450	800	300	450	800	300	450	800		

MC10E166 MC100E166





MC10E166 MC100E166

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