

Absolute Maximum Ratings (T_A = 25°C)

Parameter	Symbol	Value	Unit
Supply Voltage	V _{CC}	16	V
Lead Temperature (soldering 10sec)	T _{LEAD}	300	°C
Power Dissipation	P _D	600	mW
Operating Temperature Range KA558/KA558B	T _{OPR}	0 ~ + 70	°C
Storage Temperature Range	T _{STG}	-65 ~ + 150	°C

Electrical Characteristics

(V_{CC} = 5 ~ 15V, T_A = 25°C, unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Supply Voltage	V _{CC}	-	4.5	-	16	V
Supply Current	I _{CC}	V _{CC} = 15V, reset voltage = 15V	-	16	36	mA
Timing Error (T = RC) Initial Accuracy Drift with Temperature Drift with Supply Voltage	ACCUR Δt/ΔT Δt/ΔV _{CC}	R = 2KΩ to 100KΩ, C = 1μF	-	±2 30 0.1	5 150 0.9	% PPM/°C %/V
*1Trigger Voltage	V _{TR}	V _{CC} = 15V	-	1.5	2.4	V
*1Trigger Current	I _{TR}	V _{TR} = 0V	-	5.0	100	μA
*2Reset Voltage	V _{RST}	-	0.8	1.5	2.4	V
*2Reset Current	I _{RST}	-	-	50	500	μA
Threshold Voltage	V _{TH}	-	0.8	0.63 × V _{CC}	-	V
Threshold Current	I _{TH}	-	-	15	-	nA
*3Output Voltage	V _O	I _L = 10mA	-	0.1	0.4	V
		I _L = 100mA	-	1.0	2.0	
Output Leakage Current	I _{LKG}	-	-	10	500	nA
Propagation Delay Time	t _D	-	-	1.0	-	μS
Rise Time	t _R	I _L = 100mA	-	100	-	nS
Fall Time	t _F	I _L = 100mA	-	100	-	nS

Note :

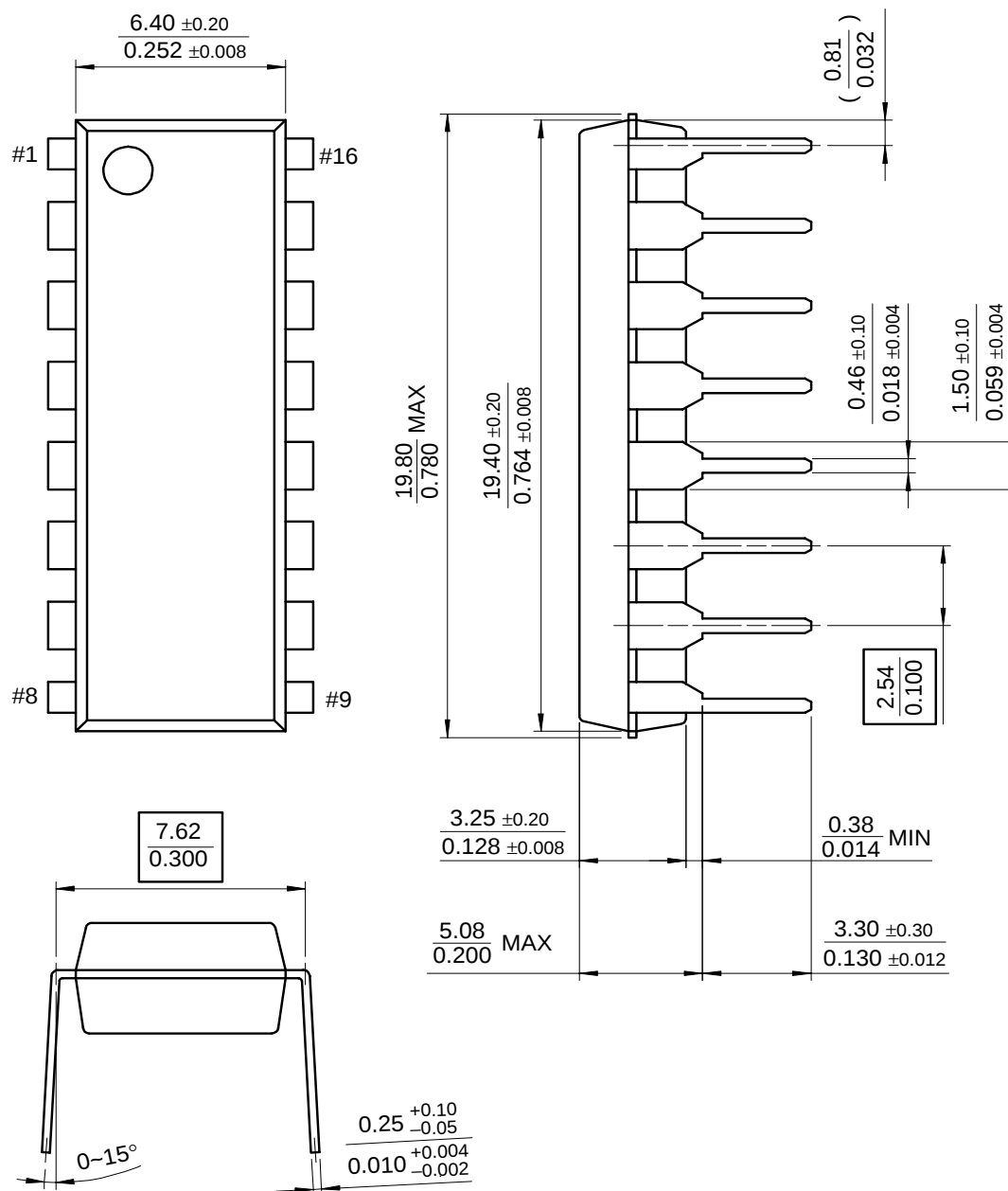
1. The trigger functions only on the falling edge of the trigger pulse only after previously being high. After reset the trigger must be brought high and then low to implement triggering.
2. For reset below 0.8V, outputs set low and trigger inhibited.
3. Output structure is open collector which requires a pull up resistor to V_{CC} to sink current.
The output is normally low sinking current.

Mechanical Dimensions

Package

Dimensions in millimeters

16-DIP

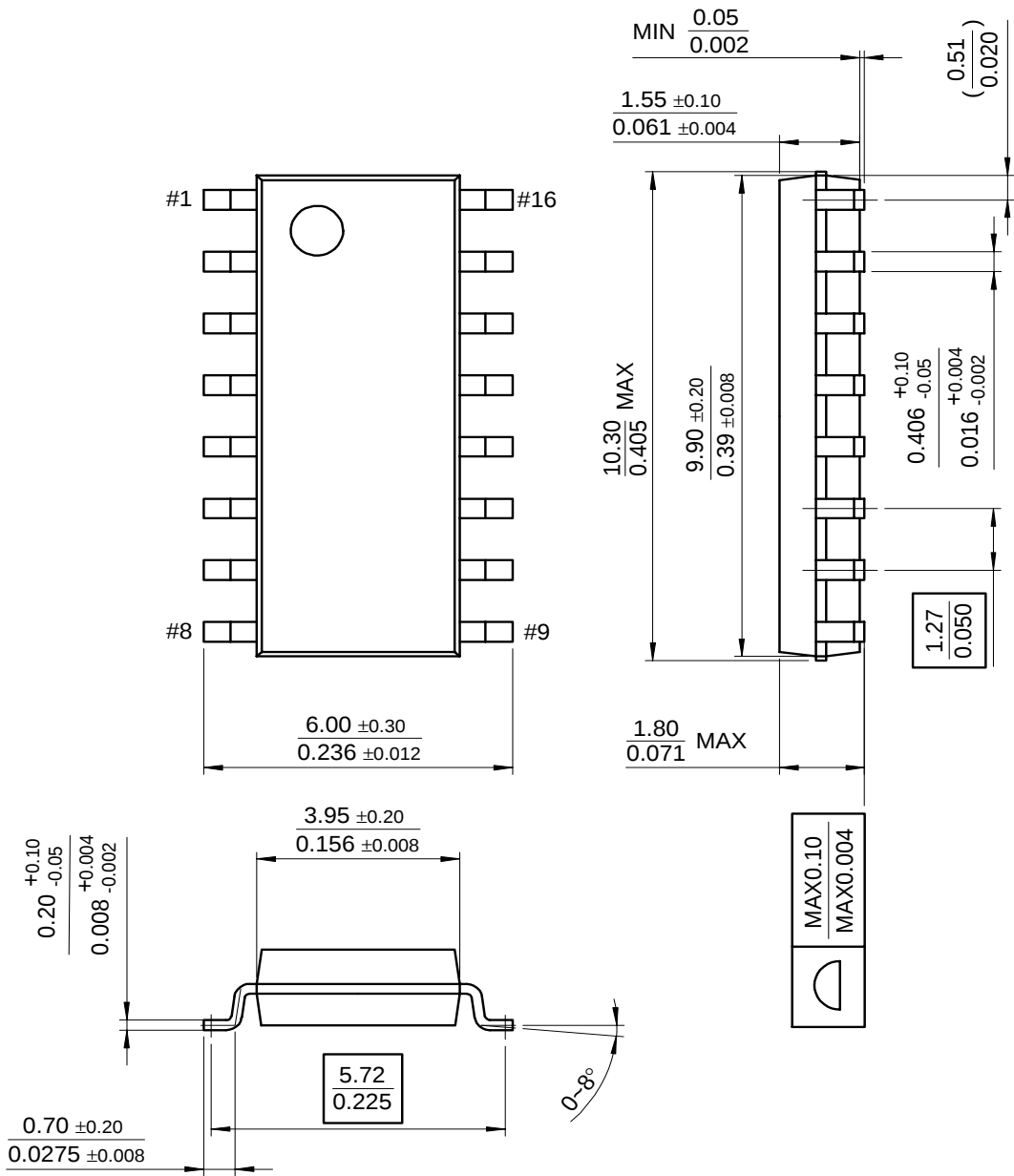


Mechanical Dimensions (Continued)

Package

Dimensions in millimeters

16-SOP



Ordering Information

Product Number	Package	Operating Temperature
KA558B	16-DIP	0 ~ + 70°C
KA558BD	16-SOP	
KA558D2		

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