



+ Enable	- Enable	Output
0	0	Triggers on both pos. and neg. input slopes
0	1	Triggers on pos. input slope
1	0	Triggers on neg. input slope
1	1	Trigger is disabled

V_{CC1} = Pin 1

V_{CC2} = Pin 16

V_{EE} = Pin 8

P_D = 415 mW typ/pkg (no Load)

Total PW range = <6 ns to > 10 ms

Retriggerable One-Shot Multivibrator

The MC10198 is a retriggerable on-shot MECL 10,000 multivibrator. Two input enables are provided, to permit triggering on positive slope, negative slope, both, or neither. Triggering of this device produce an output pulse with a duration fixed by a choice of an external R-C section and/or voltage.

The timing decade is set by a choice of capacitance ($\sim 10\text{pF} - 10\ \mu\text{F}$). R is adjusted ($\sim 300 - 3\text{K}\Omega$) to set an exact time.

To use the voltage control of output pulse width, the procedure is: choose the timing decade with a value of C; set sensitivity (decades time change/volt) with R ($\sim 400\Omega$) = 2 decades; $\sim 1.8\ \text{K} - 1$ decade, 0 to $-5\ \text{V}$ swing at voltage control input trough a $1\text{K}\Omega$ resistor.

Input Schmidt triggers ($\sim 2\ \text{ns tpd}$) are included at the input to sharpen input pulse. When minimum propagation delay is required, the high speed input may be used, by passing the Schmidt triggers.

The reset overrides the inputs, an can immediately terminate an output pulse.

MC10198

MISCELLANEOUS