

Product Overview

MC14538B: Dual Precision Monostable Multivibrator

For complete documentation, see the data sheet.

The MC14538B is a dual, retriggerable, resettable monostable multivibrator. It may be triggered from either edge of an input pulse, and produces an accurate output pulse over a wide range of widths, the duration and accuracy of which are determined by the external timing components. The MC14538B is a dual, retriggerable, resettable monostable multivibrator. It may be triggered from either edge of an input pulse, and produces an accurate output pulse over a wide range of widths, the duration and accuracy of which are determined by the external timing components, C_x and R_x .

Output Pulse Width = $(C_x)(R_x)$ where:
 R_x is in k
 C_x is in F

Features

- Unlimited Rise and Fall Time Allowed on the A Trigger Input
- Pulse Width Range = 10 μ s to 10 s
- Latched Trigger Inputs
- Separate Latched Reset Inputs
- 3.0 Vdc to 18 Vdc Operational Limits
- Triggerable from Positive (A Input) or Negative-Going Edge (B-Input)
- Capable of Driving Two Low-power TTL Loads or One Low-power Schottky TTL Load Over the Rated Temperature Range
- Pin-for-pin Compatible with MC14528B and CD4528B (CD4098)
- Use the MC54/74HC4538A for Pulse Widths Less Than 10 μ s with Supplies Up to 6 V.
- Pb-Free Packages are Available*

For more features, see the data sheet

Part Electrical Specifications

Product	Compliance	Status	Type	V _{CC} Min (V)	V _{CC} Max (V)	t _{pd} Max (ns)	P _D Max (W)	I _O Max (mA)	Package Type
MC14538BDG	Pb-free	Active	Multivibrator	3	18	300	0.5	2.25	SOIC-16
	Halide free								
MC14538BDR2G	Pb-free	Active	Multivibrator	3	18	300	0.5	2.25	SOIC-16
	Halide free								
MC14538BDTR2G	Pb-free	Active	Multivibrator	3	18	300	0.5	2.25	TSSOP-16
	Halide free								
MC14538BDWG	Pb-free	Active	Multivibrator	3	18	300	0.5	2.25	SOIC-16W
	Halide free								
MC14538BDWR2G	Pb-free	Active	Multivibrator	3	18	300	0.5	2.25	SOIC-16W
	Halide free								
NLV14538BDG	AEC Qualified	Active	Multivibrator	3	18	300	0.5	2.25	SOIC-16
	PPAP Capable								
	Pb-free								
	Halide free								
NLV14538BDR2G	AEC Qualified	Active	Multivibrator	3	18	300	0.5	2.25	SOIC-16
	PPAP Capable								
	Pb-free								
	Halide free								
NLV14538BDTR2G	AEC Qualified	Active	Multivibrator	3	18	300	0.5	2.25	TSSOP-16
	PPAP Capable								
	Pb-free								
	Halide free								

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