

# LTC3859AHFE#PBF

#### LTC3859AHFE#PBF Information



## **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



## LTC3859AHFE#PBF Specifications

Manufacturer Part NumberLTC3859AHFE#PBFManufacturerLinear TechnologyCategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching ControllersPackage38-TFSOP (0.173", 4.40mm Width) Exposed PadSeries-Output TypeTransistor DriverFunctionStep-Down, Step-Up/Step-DownOutput ConfigurationPositiveTopologyBuck, Buck-Boost, SEPICNumber of Outputs3Output Phases2Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)9%, 100%Synchronous RectifierYesClock SyncNoControl FeaturesEnable Frequency Control Power Good Soft Start Tracking		
CategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching ControllersPackage38-TFSOP (0.173", 4.40mm Width) Exposed PadSeries-Output TypeTransistor DriverFunctionStep-Down, Step-Up/Step-DownOutput ConfigurationPositiveTopologyBuck, Buck-Boost, SEPICNumber of Outputs3Output Phases2Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronus RectifierNoSerial Interfaces-	Manufacturer Part Number	LTC3859AHFE#PBF
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Series-Output TypeTransistor DriverFunctionStep-Down, Step-Up/Step-DownOutput ConfigurationPositiveTopologyBuck, Buck-Boost, SEPICNumber of Outputs3Output Phases2Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierKesClock SyncNoSerial Interfaces-		PMIC - Voltage Regulators - DC DC Switching Controllers
Output TypeTransistor DriverFunctionStep-Down, Step-Up/Step-DownOutput ConfigurationPositiveTopologyBuck, Buck-Boost, SEPICNumber of Outputs3Output Phases2Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching19%, 100%Duty Cycle (Max)SesSynchronous RectifierYesClock SyncNoSerial Interfaces-	Package	38-TFSOP (0.173", 4.40mm Width) Exposed Pad
FunctionStep-Down, Step-Up/Step-DownOutput ConfigurationPositiveTopologyBuck, Buck-Boost, SEPICNumber of Outputs3Output Phases2Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierYesClock SyncNoSerial Interfaces-	Series	-
NumberOutput ConfigurationPositiveTopologyBuck, Buck-Boost, SEPICNumber of Outputs3Output Phases2Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierKesClock SyncNoSerial Interfaces-	Output Type	Transistor Driver
TopologyBuck, Buck-Boost, SEPICNumber of Outputs3Output Phases2Voltage - Supply (Vcc/Vd0)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierYesClock SyncNoSerial Interfaces-	Function	Step-Down, Step-Up/Step-Down
Number of Outputs3Output Phases2Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierYesClock SyncNoSerial Interfaces-	Output Configuration	Positive
NoteNoteOutput Phases2Voltage - Supply (Vcc/Vd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierYesClock SyncNoSerial Interfaces-	Topology	Buck, Buck-Boost, SEPIC
Voltage - Supply (Vcc/Vdd)4.5 V ~ 38 VFrequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierYesClock SyncNoSerial Interfaces-	Number of Outputs	3
Frequency - Switching115kHz ~ 835kHz, 350kHz ~ 535kHzDuty Cycle (Max)99%, 100%Synchronous RectifierYesClock SyncNoSerial Interfaces-	Output Phases	2
Duty Cycle (Max)99%, 100%Synchronous RectifierYesClock SyncNoSerial Interfaces-	Voltage - Supply (Vcc/Vdd)	4.5 V ~ 38 V
Synchronous RectifierYesClock SyncNoSerial Interfaces-	Frequency - Switching	115kHz ~ 835kHz, 350kHz ~ 535kHz
Clock Sync No   Serial Interfaces -	Duty Cycle (Max)	99%, 100%
Serial Interfaces -	Synchronous Rectifier	Yes
	Clock Sync	No
Control Features Enable Frequency Control Power Good Soft Start Tracking	Serial Interfaces	-
Endote, Frequency Control, Force Cood, Soft Start, Franking	Control Features	Enable, Frequency Control, Power Good, Soft Start, Tracking
Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C} \text{(TJ)}$	Operating Temperature	-40°C ~ 150°C (TJ)
Package / Case38-TFSOP (0.173", 4.40mm Width) Exposed Pad	Package / Case	38-TFSOP (0.173", 4.40mm Width) Exposed Pad
Supplier Device Package 38-TSSOP-EP	Supplier Device Package	38-TSSOP-EP
Report errors		Report errors?

## LTC3859AHFE#PBF Guarantees



Quality Guarantees

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### LTC3859AHFE#PBF Payment Methods



If you have any question about LTC3859AHFE#PBF, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com