

Product Brief

TLF1963

Linear Post Regulator



TLF1963 is a low dropout voltage regulator available in PG-TO263-5 and PG-TO252-5 SMD packages. The IC regulates an input voltage V_I in the range of $2.5V < V_I < 20V$ to an adjustable output voltage of $1.21V < V_{Q,nom} < V_I - V_{dr}$. The device is capable to supply loads up to 1.5A. The regulator can be enabled and disabled via the Enable input. The integrated output current limitation and the over-temperature shutdown will protect the device against failures like output short circuit to GND, overcurrent and overtemperature.

The TLF1963 provides the ideal solution for systems requiring several supply voltages. With its adjust feature the regulator can provide all supply voltages between 1.21V and the available input voltage, this offers a high flexibility to the system designer.

Applications

- Infotainment, cluster, ADAS & dashboards
- Me too product of:
 - Linear Technologies LT1963
 - Texas Instruments TL1963

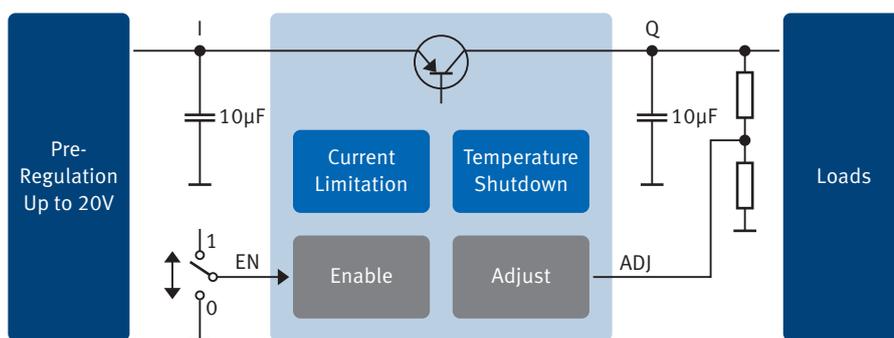
Key Features

- Enable
- Output voltage: ADJ ($\pm 3\%$)
- Input current: 1500mA
- Low noise: $40\mu V_{RMS}$
- Drop voltage typ.: 340mV @ 1.5A

Key Benefits

- Cost optimized ceramic output capacitance $\rightarrow 10\mu F$
- Suitable for cranking $\rightarrow 2.5V$ input
- Power saving with enable feature

Application Schematic



TLF1963

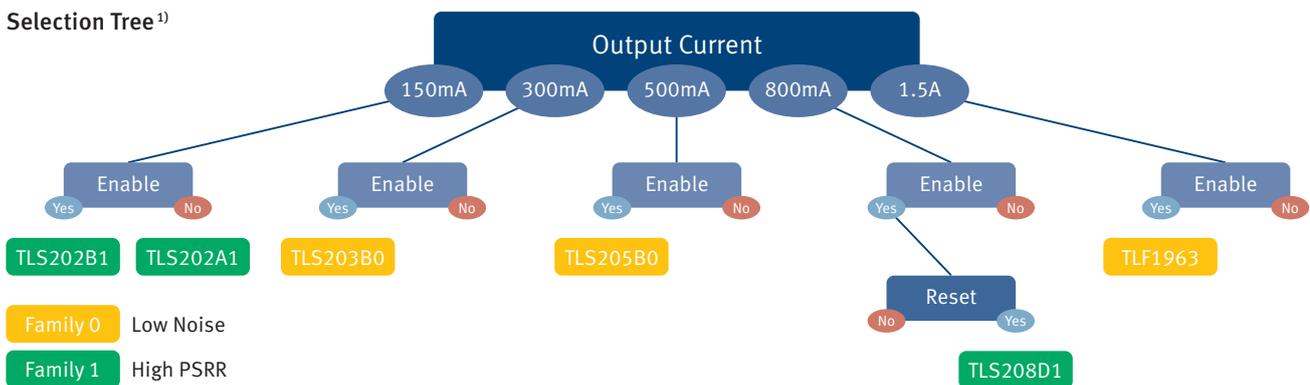
Linear Post Regulator



TLF1963 Overview

Key Features	Key Benefits
<p>Low Drop Voltage</p>	<p>Suitable for high current applications up to 1.5A</p>
<p>Low Noise</p>	<p>Suitable for some ADAS radar applications</p>
<p>Excellent Load Transient</p>	<p>Design for harsh automotive environment</p>

Selection Tree¹⁾



1) None contractual product proposal: for more information on product family contact sale relations

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