



**Product Brief** 

# TLS203B0 Adjustable Version

# Linear Post Regulator



The TLS203B0 is a micro power, low noise, low dropout voltage regulator. The device is capable of supplying an output current of 300mA with a dropout voltage of 270mV. Designed for use in battery-powered systems, the low quiescent current of  $30\mu A$  makes it an ideal choice.

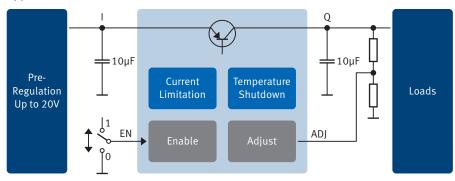
A key feature of the TLS203B0 is its low output noise. By adding an external 10nF by-pass capacitor, output noise values down to  $24\mu VRMS$  can be reached. The TLS203B0 voltage regulator is stable with output capacitors as small as  $3.3\mu F$ . Small ceramic capacitors can be used without the series resistance required by many other regulators.

Internal protection circuitry includes reverse battery protection, current limiting and reverse current protection. The TLS203B0 comes as fixed output voltages 3.3V, 5.0V as well as adjustable device with a 1.22V reference voltage. It is available in a PG-DSO-8 exposed pad and as well as in a PG-TSON-1010 exposed pad package.

### **Applications**

- Infotainment, cluster & camera
- CPU supplies & memory
- Post regulation after DC/DC converter

# **Application Schematic**



## **Key Features**

- Enable
- Output voltage: ADJ
- Input current: 300mA
- Low current consumption:  $30\mu A$  ( $I_0 = 0mA$ )
- Drop voltage typ.: 270mV @ 300mA

### **Key Benefits**

- Cost optimized ceramic output capacitance → 3.3µF
- Suitable for cranking → 2.3V input
- Power saving with enable feature





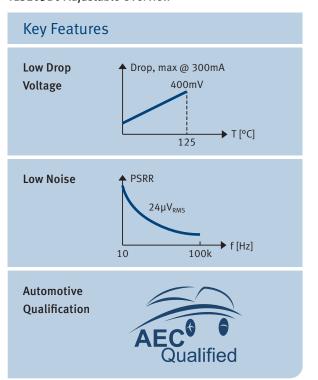


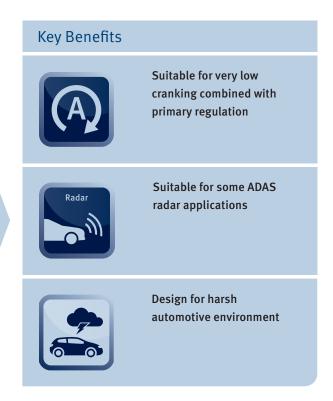
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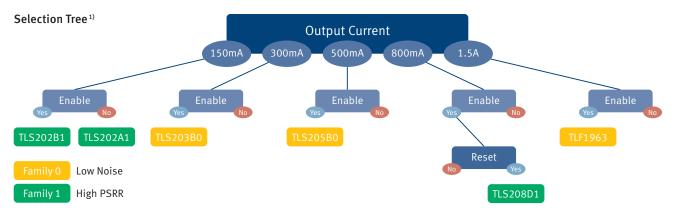
# **Linear Post Regulator**



# TLS203B0 Adjustable Overview







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

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