

DUAL FIXED POSITIVE 5 AND 3 VOLT LOCAL VOLTAGE REGULATOR

ZSCD5030
ZSXD5030

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DEVICE DESCRIPTION

The ZS=D5030 dual fixed positive voltage regulators feature internal circuit current limit and thermal shutdown making the devices almost impossible to destroy.

The devices are available in Zetex small outline SM8 package, ideal for applications where space saving is important. Two configurations are available - common and isolated - as represented in the schematic diagrams below.

The devices feature output voltages of 5 and 3 volts each capable of delivering up to 200mA. The SM8 package allows up to 2.25W power dissipation for each regulator.

The devices are suited to local voltage regulation applications, where problems could be encountered with distributed single source regulation, as well as more general voltage regulation applications.

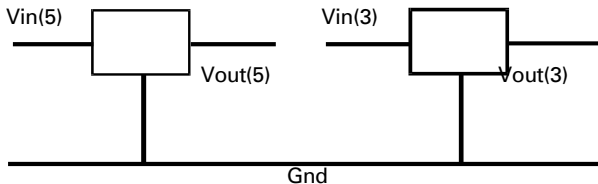
The ZS=D5030 devices show performance characteristics superior to other local voltage regulators. The initial output voltage is maintained to within 2.5% with a quiescent current of typically 350 μ A. Output voltage change with input voltage and load current is

much lower than competitive devices. The ZS=D5030 devices are completely stable with no external components. The devices will shut down under thermal overload conditions but as the device cools, regulation will restart until thermal overload reoccurs.

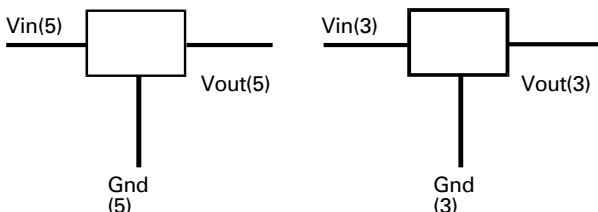
FEATURES

- Small outline SM8 package
- Two device configurations
- 5V and 3V output
- Output current up to 200mA
- Tight initial tolerance
- Low quiescent current
- -55 to 125 °C temperature range
- No external components
- Internal thermal shutdown
- Internal short circuit current limit
- 2.25W per device

SCHEMATIC DIAGRAMS



ZSCD5030 - COMMON CONNECTED



ZSXD5030 - ISOLATED

CONNECTION TABLE

Pin	Common	Isolated
1	Vin(5)	Vin(5)
2	-	-
3	Vin(3)	Vin(3)
4	-	-
5	Gnd	Gnd(3)
6	Vout(3)	Vout(3)
7	-	Gnd(5)
8	Vout(5)	Vout(5)
Configuration	C	X
see Diagram Page 4 - 6		

▣ = connection options