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ZXCT1083Q

40V improved accuracy

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Description

The ZXCT1082Q/83Q/84Q/85Q/86Q/87Q are high side unipolar current sense monitors. These devices eliminate the need to disrupt the ground plane when sensing a load current.

The ZXCT1082Q/1084Q/1086Q have 60V maximum operating voltages and ZXCT1083Q/1085Q/1087Q have 40V maximum operating voltages.

The wide common-mode input voltage range and low quiescent currents coupled with SOT25 packages make them suitable for a range of applications; including automotive and systems operating from industrial 24-28V rails.

Their quiescent current is only 0.6µA thereby minimizing current sensing error.

The ZXCT1082Q and ZXCT1083Q use three external transconductance/gain setting resistors which increase versatility by permitting wide gain ranges and optimization of bandwidths.

The ZXCT1084Q/85Q/86Q/87Q are fixed gain voltage output counterparts of the ZXCT1082Q/83.

The ZXCT1082Q/3Q/4Q/5Q/6Q/7Q have been qualified to AEC-Q100 Grade 1 and are Automotive Grade supporting PPAPs.

Application

- Automotive current measurement
- Automotive battery management
- Automotive over current monitor

Features

- Wide supply and common-mode voltage range
 - 2.7V to 60V ZXCT1082Q/84Q/86Q
 - 2.7V to 40V ZXCT1083Q/85Q/87Q
- Independent supply and input common-mode voltage
- Low quiescent current (0.6µA).
- AEC-Q100 Grade 1 qualified
- Extended industrial temperate range -40 to +125°C
- SOT25 package in Green Molding
 - Totally Lead-Free & Fully RoHS Compliant
 - Halogen and Antimony Free. "Green" Device
- Automotive Grade
 - Qualified to AEC-Q100 Standards for High Reliability
 - PPAP Capable