

Contact Us

Locations

FAQ

Investors

DIODES

INCORPORATED

DISCRETE

ANALOG

LOGIC

Part # /

Keyword

Products

Design

Quality

Applications

Home > Catalog > Automotive > Seat Control Module > Current Monitors > ZXCT1085Q

Current Monitors

ZXCT1085Q

Product Overview

Part Number	Data Sheet	SPICE Model	
ZXCT1085Q		-	

Description

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

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

The wide common-mode input voltage range and low quiescent currents coupled with SOT25 packages make them suitable for a range of applications 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 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 temperature 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

Downloads

 Data Sheet

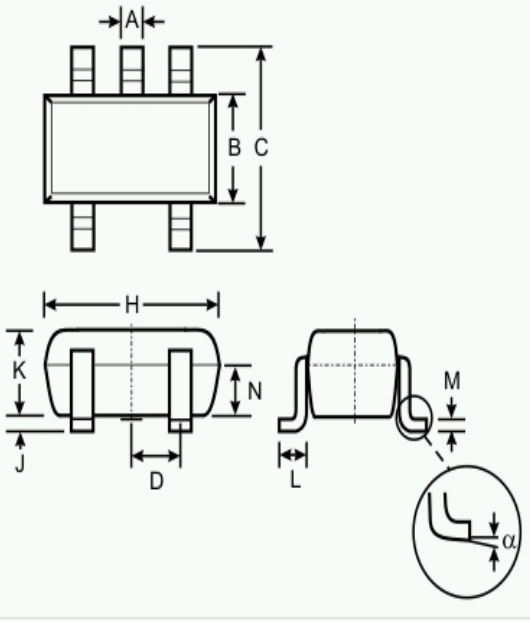
Distributor Stock Information / Buy Now

Part Number	Authorized Distributor	Quantity	Inventory Date	
ZXCT1085QE5TA	DIGI-KEY CORPORATION	3000	2015/09/04	

Package Outline Information

SOT25

TAPE&REEL



SOT25			
Dim	Min	Max	Typ
A	0.35	0.50	0.38
B	1.50	1.70	1.60
C	2.70	3.00	2.80
D	—	—	0.95
H	2.90	3.10	3.00
J	0.013	0.10	0.05
K	1.00	1.30	1.10
L	0.35	0.55	0.40
M	0.10	0.20	0.15
N	0.70	0.80	0.75
α	0°	8°	—
All Dimensions in mm			

f

g+

in

t

e

Follow Us

© Copyright Diodes Incorporated. All rights reserved.

Trademarks

Privacy Policy

Terms of Use

Site Map

Downloaded from [Arrow.com](#)