Issue Number | 001
31 July 2009

DIODES INCORPORATED

New Product Announcement

TL072 Low noise and TL082 General purpose Dual Op Amps

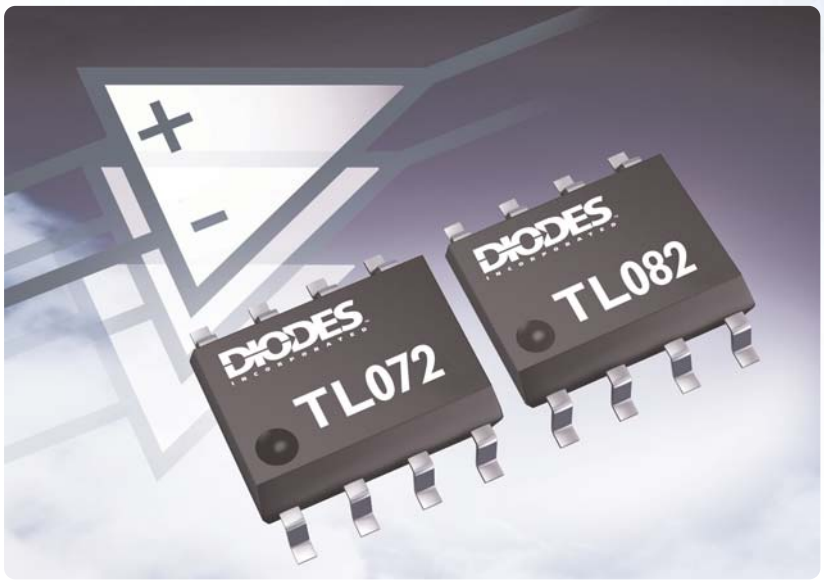
The TL072 and TL082 are:

- Low noise dual op amps
  - 18nV/√Hz
- Low input bias/offset current
- "high speed"
  - 3MHz bandwidth
  - 15V/µs slew rate

TL072 is sold as low noise version for audio apps.

TL082 is sold as device having best settling time for instrumentation/industrial apps

Both are available in the industry standard SO-8 package.



Description

- **Pin-pin compatible with TL072/TL082**
  Offers customers a lower cost solution to TI's and STM's TL072/082
- **-40 to 85°C temperature range**
  Operates over whole industrial temperature range
- **Low noise voltage**
  Maximises available dynamic range available
- **3MHz bandwidth**
  Good bandwidth for low noise audio apps
- **Leadfree and Green Mold compound**
  Suitable for customers requiring green products

Typical application areas

- TL072 aimed at audio apps, including pre-amps
- TL082 aimed at industrial apps:
  - o Filtering,
  - o Amplification,
  - o Precision rectification,
  - o Peak detectors,
  - o Sample and holds

Issue Number | 001
31 July 2009

DIODES INCORPORATED

New Product Announcement

TL072 Low noise and TL082 General purpose Dual Op Amps

Product Family

Part number	Number of channels	Supply voltage range (V)	Supply current (mA)	Input Offset Voltage (typ) (mV)	Input Bias Current (typ) (nA)	Input Common Mode Voltage range (V)	Rail-rail	Output current (source) (mA)	Output current (sink) (mA)	Ambient temperature range (°C)	Packages
APX32x	1, 2, 4	2.5 ~ 5.5	0.11	1.7	15	V- +0.2 to V+ -0.2	Input/ Output	60	90	-40 to +85	SOT23-5 SOT353 SO-8 MSOP8 TSSOP14
LMV32x	1,2, 4	2.5 ~ 5.5	0.11	1.7	15	V- -0.2 to V+ -0.8	Output	60	90	-40 to +85	SOT23-5 SOT353 SO-8 MSOP8 TSSOP14
AP358	2	3 ~ 32	0.5	2	45	0 to V+ -1.5	No	40	20	0 to +70	PDIP8 SO-8
TL072	2	±5 ~ ±15	1.4	3	0.065	Vcct -3V ~ Vcc +3V	No	15	15	-40 to +85	SO-8
TL082	2	±5 ~ ±15	1.4	3	0.065	Vcct -3V ~ Vcc +3V	No	15	15	-40 to +85	SO-8

To find out more information:

Product page http://www.diodes.com/products/catalog/list.php?parent-id=75
Datasheet http://www.diodes.com/datasheets/TL072.PDF
Datasheet http://www.diodes.com/datasheets/TL082.PDF

Ordering information

Order reference	Package	Device marking	Reel size	Quantity per reel	Tape width
TL072SG-13	SO-8	TL072 YYWWXG	13	2500	8
TL082SG-13	SO-8	TL0 YYWWXG	13	2500	8

YY:- Year WW: Week X: Internal code