

Is Now Part of



ON Semiconductor®

To learn more about ON Semiconductor, please visit our website at www.onsemi.com

Please note: As part of the Fairchild Semiconductor integration, some of the Fairchild orderable part numbers will need to change in order to meet ON Semiconductor's system requirements. Since the ON Semiconductor product management systems do not have the ability to manage part nomenclature that utilizes an underscore (_), the underscore (_) in the Fairchild part numbers will be changed to a dash (-). This document may contain device numbers with an underscore (_). Please check the ON Semiconductor website to verify the updated device numbers. The most current and up-to-date ordering information can be found at www.onsemi.com. Please email any questions regarding the system integration to Fairchild guestions@onsemi.com.

ON Semiconductor and the ON Semiconductor logo are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any EDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officer



September 2012

FSUSB63 - 3:1高速USB2.0开关 / 多路复用器

产品特性

开关类型	3:1 USB开关
LICD	符合USB 2.0高速 &
USB	全速规范
先开后合时间	126µs
Ron	6Ω典型值
Con	6pF典型值
带宽	830MHz
Vcc	2.7V至4.4V
VCNTRL	0至Vcc
工作温度	-40°C至85°C
ICCSLP	<1µA
I _{CCACT}	典型值为7.5μA
封装	12引脚UMLP 1.80 x 1.80 x
	0.55mm,0.40mm间距
顶标	KG
订购信息	FSUSB63UMX

应用场合

- 手机,数码相机,笔记本电脑
- 液晶显示器、 电视和机顶盒
- 上网本,移动互联网设备(MID)

说明

FSUSB63是双向低功率高速(HS)USB 2.0 3:1复用器(MUX)。 该器件经优化可从三个高速(480Mbps)电源或任意高速和全速 (12Mbps)USB电源,例如应用处理器,切换至一个USB 2.0连接器。

FSUSB63存在一个"先开后合"时间,当在不同HS USB 2.0 控制器之间切换时,可由主机强制发生一次再列举,这样需要软件变动最小。

FSUSB63与USB.2.0的要求兼容,且具有极低的导通电容 (C_{ON}) 。

带宽超过了通过三次谐波所需的带宽,从而使信号具有最小的边沿和相位失真。

卓越的通道间串扰也最大限度地减少了干扰。

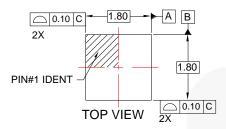
相关资料

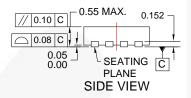
■ 有关样品、疑问请联系:

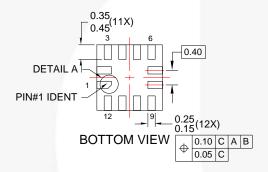
Analog.Switch@fairchildsemi.com.

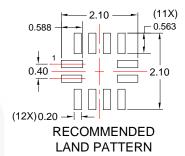
■ FSUSB63 演示板

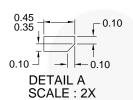
物理尺寸











NOTES:

- A. PACKAGE DOES NOT FULLY CONFORM TO JEDEC STANDARD.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994.
- D. LAND PATTERN RECOMMENDATION IS BASED ON FSC DESIGN ONLY.
- E. DRAWING FILENAME: MKT-UMLP12Arev4.

LEAD LEAD
OPTION 1 OPTION 2
SCALE: 2X SCALE: 2X

图 18. 12-引脚超薄模塑无铅封装(UMLP)

订购信息

器件型号	顶标	工作温度范围	封装
FSUSB63UMX	KG	-40 至 +85°C	12-引脚,方形,超薄模塑无铅封装(UMLP) 1.8mm x 1.8mm x 0.55mm, 0.4mm 节距

封装图纸作为一项服务,提供给考虑飞兆半导体元件的客户。 封装图可能会有所修改,不再另行通知。 请注意图纸上的版次和/或日期,并联系飞兆半导体代表核实或获取最新版本。 封装规格并不超出飞兆公司全球范围内的条款与条件,尤其指保修,保修涉及飞兆半导体的全部产品。

随时访问飞兆半导体在线封装网页,可以获得最新的封装图:

http://www.fairchildsemi.com/packaging/.



TRADEMARKS

The following includes registered and unregistered trademarks and service marks, owned by Fairchild Semiconductor and/or its global subsidiaries, and is not intended to be an exhaustive list of all such trademarks.

2Cool™ F-PFS™ AccuPower™ FRFET®

AX-CAP™* Global Power ResourceSM

RiFSIC™ Green Bridge™

 BitSiC™
 GreenBridge™

 Build it Now™
 Green FPS™

 CorePLUS™
 Green FPS™ e-Series™

DEUXPEED[®] Making Small Speakers Sound Louder

Dual Cool™ and Better™

MicroPak2™

Miller Drive™

MotionMax™

OPTOLOGIC®

OPTOPLANAR®

mWSaver™

OptoHiT™

 Dual Cool™
 and Better™

 EcoSPARK®
 MegaBuck™

 EfficientMax™
 MICROCOUPLER™

 ESBC™
 MicroFET™

 MicroPak™

Fairchild®
Fairchild Semiconductor®
FACT Quiet Series™
FACT®
FAST®
FastvCore™
FETBench™

FE⊺Bench™ FlashWriter®* FPS™ PowerTrench[®] PowerXS™

Programmable Active Droop™ OFFT®

QS™ Quiet Series™ RapidConfigure™

Saving our world, 1mW/W/kW at a time™

SignalWise™ SmartMax™ SMART START™ Solutions for Your S

Solutions for Your Success™

SPM®
STEALTH™
SuperFET®
SuperSOT™-3
SuperSOT™-8
SupreMOS®
SyncFET™
Sync-Lock™
SYSTEM
GENERAL®*

The Power Franchise®

p wer franchise
TinyBoost™

TinyBost™
TinyCogic™
TinyLogic®
TINYOPTO™
TinyPower™
TinyPWM™
TinyWMre™
TranSic™
TriFault Detect™

TriFault Detect™
TRUECURRENT®*

µSerDes™

SerDes*
UHC®
Ultra FRFET™
UniFET™
VCX™
VisualMax™
VoltagePlus™
XS™

DISCLAIMER

FAIRCHILD SEMICONDUCTOR RESERVES THE RIGHT TO MAKE CHANGES WITHOUT FURTHER NOTICE TO ANY PRODUCTS HEREIN TO IMPROVE RELIABILITY, FUNCTION, OR DESIGN. FAIRCHILD DOES NOT ASSUME ANY LIABILITY ARISING OUT OF THE APPLICATION OR USE OF ANY PRODUCT OR CIRCUIT DESCRIBED HEREIN; NEITHER DOES IT CONVEY ANY LICENSE UNDER ITS PATENT RIGHTS, NOR THE RIGHTS OF OTHERS. THESE SPECIFICATIONS DO NOT EXPAND THE TERMS OF FAIRCHILD'S WORLDWIDE TERMS AND CONDITIONS, SPECIFICALLY THE WARRANTY THEREIN, WHICH COVERS THESE PRODUCTS.

LIFE SUPPORT POLICY

FAIRCHILD'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS WRITTEN APPROVAL OF FAIRCHILD SEMICONDUCTOR CORPORATION.

As used herein:

- Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- A critical component in any component of a life support, device, or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

ANTI-COUNTERFEITING POLICY

Fairchild Semiconductor Corporation's Anti-Counterfeiting Policy. Fairchild's Anti-Counterfeiting Policy is also stated on our external website, www.fairchildsemi.com, under Sales Support.

Counterfeiting of semiconductor parts is a growing problem in the industry. All manufacturers of semiconductor products are experiencing counterfeiting of their parts. Customers who inadvertently purchase counterfeit parts experience many problems such as loss of brand reputation, substandard performance, failed applications, and increased cost of production and manufacturing delays. Fairchild is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. Fairchild strongly encourages customers to purchase Fairchild parts either directly from Fairchild or from Authorized Fairchild Distributors who are listed by country on our web page cited above. Products customers buy either from Fairchild directly or from Authorized Fairchild Distributors are genuine parts, have full traceability, meet Fairchild's quality standards for handling and storage and provide access to Fairchild's full range of up-to-date technical and product information. Fairchild and our Authorized Distributors will stand behind all warranties and will appropriately address any warranty issues that may arise. Fairchild will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. Fairchild is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition	
Advance Information	Formative / In Design	Datasheet contains the design specifications for product development. Specifications may change in any manner without notice.	
Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.	
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.	
Obsolete	Not In Production	Datasheet contains specifications on a product that is discontinued by Fairchild Semiconductor. The datasheet is for reference information only.	

Rev. 162

^{*} Trademarks of System General Corporation, used under license by Fairchild Semiconductor.

ON Semiconductor and in are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at www.onsemi.com/site/pdt/Patent-Marking.pdf. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and hold ON Semiconductor and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and exp

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:

Literature Distribution Center for ON Semiconductor 19521 E. 32nd Pkwy, Aurora, Colorado 80011 USA Phone: 303-675-2175 or 800-344-3860 Toll Free USA/Canada Fax: 303-675-2176 or 800-344-3867 Toll Free USA/Canada Email: orderlit@onsemi.com N. American Technical Support: 800–282–9855 Toll Free USA/Canada
Europe, Middle East and Africa Technical Support: Phone: 421 33 790 2910
Japan Customer Focus Center
Phone: 81–3–5817–1050

ON Semiconductor Website: www.onsemi.com

Order Literature: http://www.onsemi.com/orderlit

For additional information, please contact your local Sales Representative