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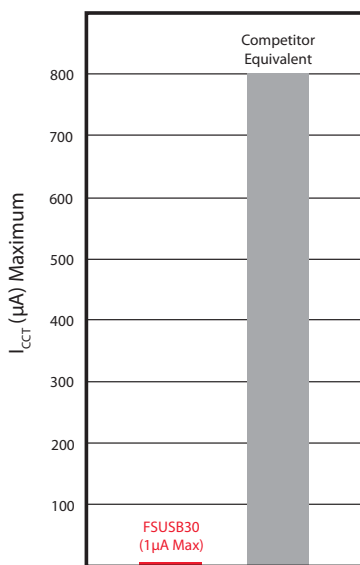
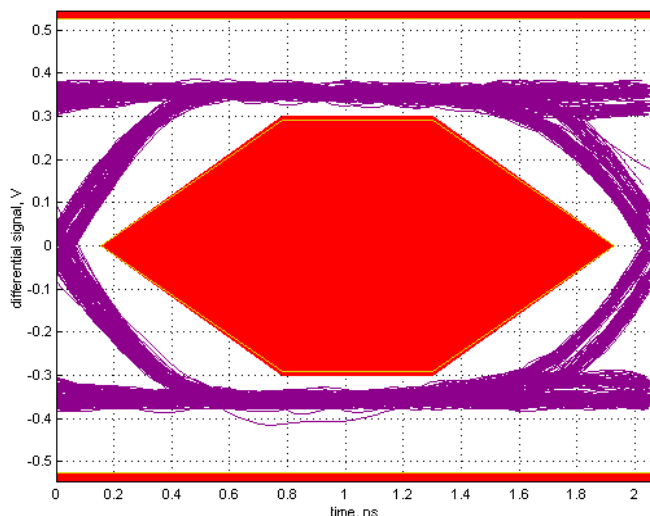
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AN6018 Fairchild USB Switch Advantages

Signal Integrity

Fairchild Hi-Speed USB products are specially designed to maintain signal integrity of USB data signals, allowing the system to maintain eye compliance. This is the result of Fairchild's custom USB designs, which have very little signal attenuation and edge roll off. Fairchild USB switches are optimized for ultra-low ON Capacitance, which allows for more flexibility in board design.

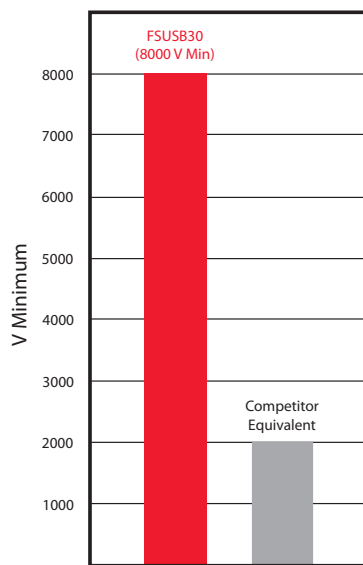
FSUSB30 HI-Speed Eye Compliance Diagram



CURRENT CONSUMPTION

Low Current Consumption

Fairchild's entire line of USB switch products features low quiescent current consumption, making them ideal for battery-operated applications. In addition, Fairchild leads the market by incorporating special low ICCT circuitry on several products. This circuitry maintains low current consumption when control voltages are less than VCC.



ESD PROTECTION

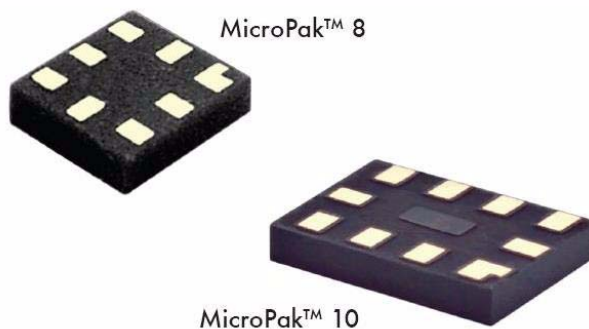
High ESD Protection Ratings

Fairchild's USB switch products exceed industry standards and are among the best in the market with Human Body Model (HBM) ratings as high as 8KV.

MicroPak™ Packaging

Fairchild's MicroPak™ is the smallest packaging in the industry. All Fairchild USB switches are available in MicroPak™ packaging, making them the industry's best fit for space-constrained applications. With up to 1.5x to 3x the terminal contact area of bumped chips, MicroPak™ 10 is a rugged alternative to competitors' wafer-level, chip-scale packaging (WCSP).

	Terminals	Width	Length	Height
MicroPak™ 8	8	1.6 mm	1.6 mm	0.55 mm
MicroPak™ 10	10	1.6 mm	2.1 mm	0.55 mm



Fairchild Semiconductor
Analog Switch Products
www.fairchildsemi.com/analogswitch

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