

GLF71313 Nano-Current Consumed I₀Smart[™] Load Switch with Slew Rate

Product Brief

DESCRIPTION

The GLF71313 is an ultra-efficiency, 2 A rated, Load Switch with integrated slew rate control. The best in class efficiency makes it an ideal chose for use in IoT, mobile, and wearable electronics.

The GLF71313 features ultra-efficient I_QSmart^{TM} technology that supports the lowest quiescent current (I_Q) and shutdown current (I_{SD}) in the industry. Low I_Q and I_{SD} solutions help designers to reduce parasitic leakage current, improve system efficiency, and increase battery lifetime.

The GLF71313 integrated slew rate control can also enhance system reliability by mitigating bus voltage swings during switching events. Where uncontrolled switches can generate high inrush currents that result in voltage droop and/or bus reset events, the GLF slew rate control specifically limits inrush currents during turn-on to minimize voltage droop.

GLF71313 Load Switch devices support an industry leading wide input voltage range and helps to improve operating life and system robustness. Furthermore, one device can be used in multiple voltage rail applications which helps to simplify inventory management and reduce operating cost.

GLF71313 Load Switch device is small utilizing a chip scale package with 4 bumps in a 0.97 mm x 0.97 mm x 0.55 mm die size and a 0.5 mm bump pitch.

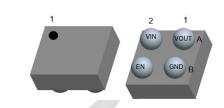
FEATURES

- Ultra-Low IQ: 520 nA Typ @ 5.5 VIN
- Ultra-Low Isd: 28 nA Typ @ 5.5 Vin
- Low R_{ON} : 31 mΩ Typ @ 5.5 V_{IN}
- I_{OUT} Max: 2 A
- Wide Input Range: 1.1 V to 5.5 V 6 Vabs max
- Controlled Rise Time: 335 us at 3.3 V_{IN}
- Internal EN Pull-Up Resistor
- Integrated Output Discharge Switch
- Ultra-Small: 0.97 mm x 0.97 mm

APPLICATIONS

- Wearables
- Data Storage, SSD
- Mobile Devices
- Low Power Subsystems

PACKAGE

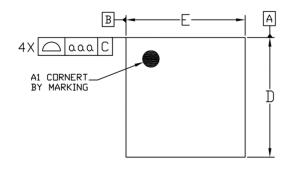


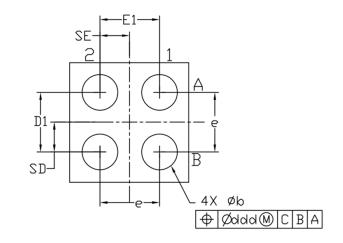
0.97 mm x 0.97 mm x 0.55 mm WLCSP

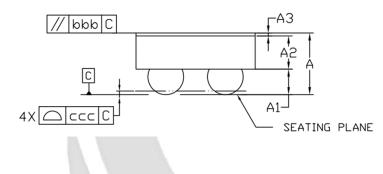
GLF71313 INTEGRATED POWER Nano-Current Consumed, IoSmartTM Load Switch with Slew Rate

PACKAGE OUTLINE

- i







Dimensional Ref.			
REF.	Min.	Nom.	Max.
Α	0.500	0.550	0.600
A1	0.225	0.250	0.275
A2	0.255	0.275	0.300
A3	0.020	0.025	0.030
D	0.960	0.970	0.985
E	0.960	0.970	0.985
D1	0.450	0.500	0.550
E1	0.450	0.500	0.550
Ь	0.260	0.310	0.360
e	0.500 BSC		
SD	0.250 BSC		
SE	0.250 BSC		
Tol. of Form&Position			
ааа	0.10		
ЬЪЬ	0.10		
ccc	0.05		
ddd	0.05		

Notes

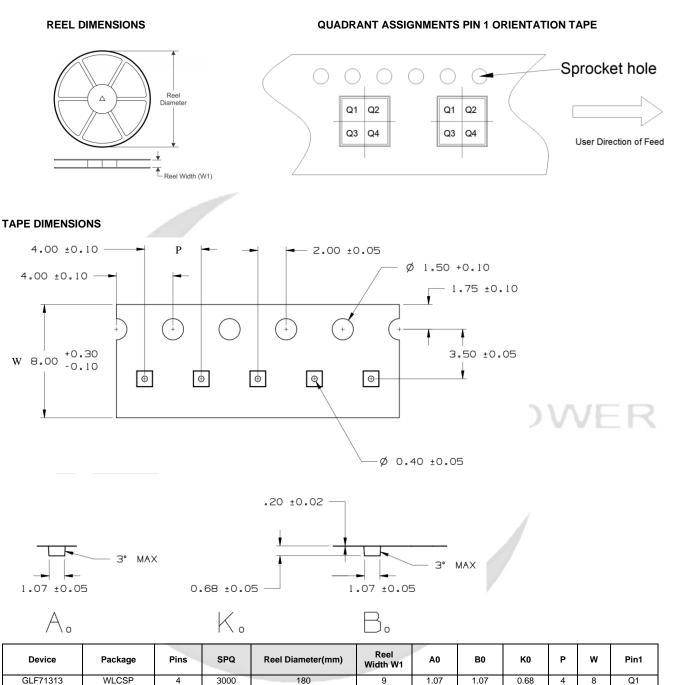
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGRESS)

2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.

3. A3: BACKSIDE LAMINATION

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TAPE AND REEL INFORMATION



Remark:

- A0: Dimension designed to accommodate the component width
- B0: Dimension designed to accommodate the component length
- C0: Dimension designed to accommodate the component thickness
- W: Overall width of the carrier tape
- P: Pitch between successive cavity centers