

## DESCRIPTION

The GLF71311H is an ultra-efficiency, 3 A rated, load switch with integrated slew rate control. The best in class efficiency makes it an ideal choice for use in IoT, mobile, and wearable electronics.

The GLF71311H features ultra-efficient I<sub>Q</sub>Smart™ technology that supports the lowest quiescent current (I<sub>Q</sub>) and shutdown current (I<sub>SD</sub>) in the industry. Low I<sub>Q</sub> and I<sub>SD</sub> solutions help designers to reduce parasitic leakage current, improve system efficiency and increase battery lifetime.

The GLF71311H 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 GLF71311H slew rate control specifically limits inrush currents during turn-on to minimize voltage droop.

GLF71311H 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.

GLF71311H 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.

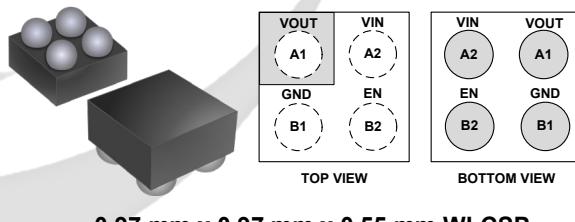
## FEATURES

- Ultra-Low I<sub>Q</sub>: 7 nA Typ at 5.5 V<sub>IN</sub>
- Ultra-Low I<sub>SD</sub>: 28 nA Typ at 5.5 V<sub>IN</sub>
- Low R<sub>ON</sub> : 31 mΩ Typ at 5.5 V<sub>IN</sub>
- I<sub>OUT</sub> Max: 3 A
- Wide Input Range: 1.1 V to 5.5 V  
6 V<sub>ABS</sub> max
- Controlled Rise Time: 335 µs at 3.3 V<sub>IN</sub>
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- Wide Operation Temperature Range:  
- 40 °C to 105 °C
- Ultra-Small: 0.97 mm x 0.97 mm

## APPLICATIONS

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

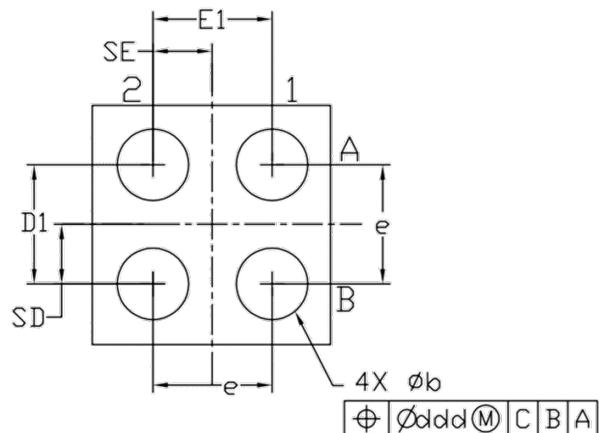
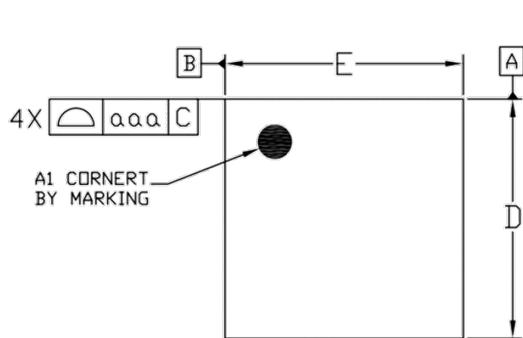
## PACKAGE



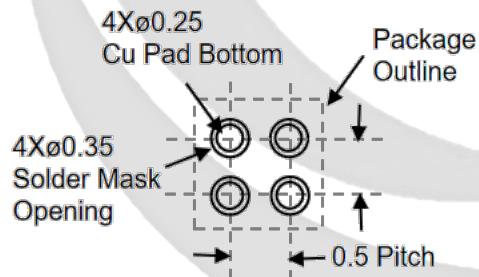
## DEVICE INFORMATION

Part Number	Top Mark	R <sub>ON</sub> (Typ.) at 5.5 V	Output Discharge	EN Activity	Availability
GLF71311H	DZ	31 mΩ	85 Ω	High	Released

## PACKAGE OUTLINE



## Recommended Footprint



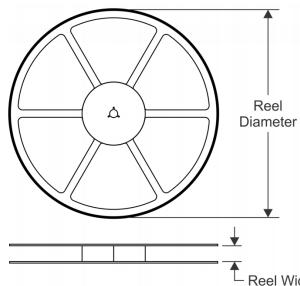
## Notes

1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREE)
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.
3. A3: BACKSIDE LAMINATION

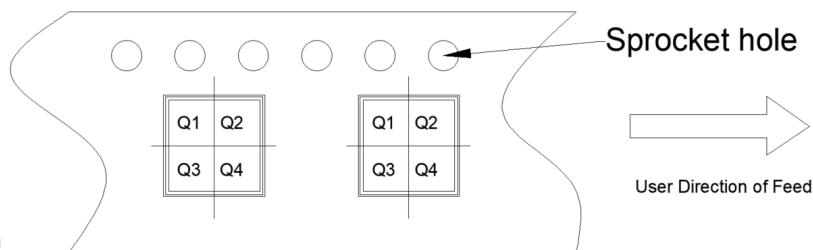
Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.500	0.550	0.600
A1	0.225	0.250	0.275
A2	0.255	0.275	0.300
A3	0.020	0.025	0.030
D	0.960	0.970	0.985
E	0.960	0.970	0.985
D1	0.450	0.500	0.550
E1	0.450	0.500	0.550
b	0.260	0.310	0.360
e	0.500 BSC		
SD	0.250 BSC		
SE	0.250 BSC		
Tol. of Form&Position			
aaa	0.10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

## TAPE AND REEL INFORMATION

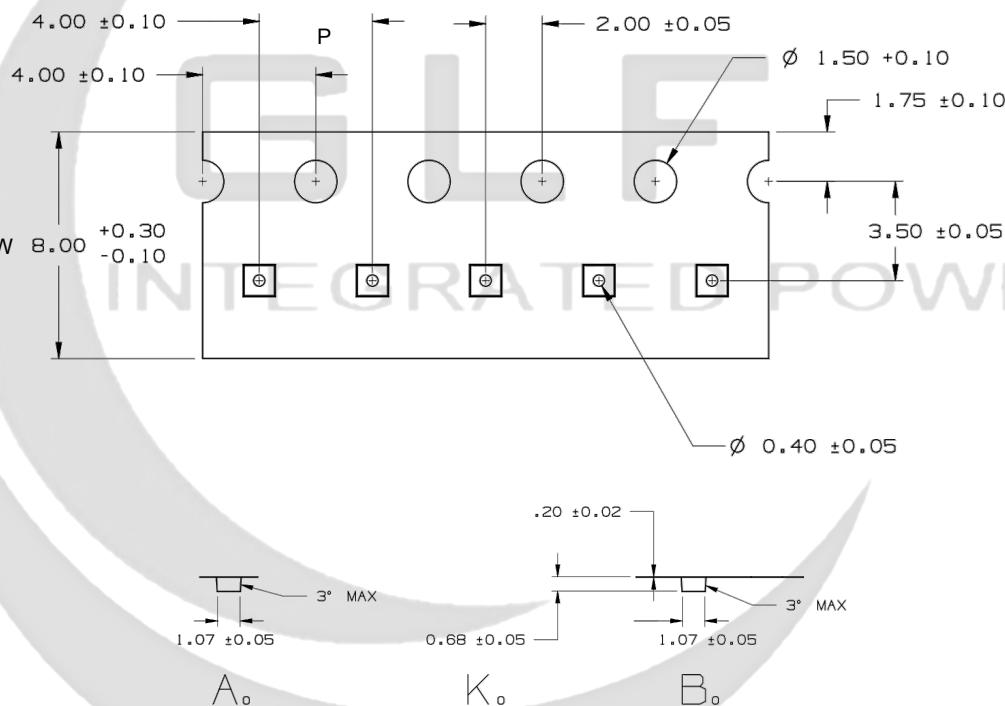
## REEL DIMENSIONS



## QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE



## TAPE DIMENSIONS



Device	Package	Pins	SPQ	Reel Diameter (mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF71311H	WLCSP	4	3000	180	9	1.07	1.07	0.68	4	8	Q1

Remark:

A0: Dimension designed to accommodate the component width

B0: Dimension designed to accommodate the component length

K0: Dimension designed to accommodate the component thickness

W: Overall width of the carrier tape

P: Pitch between successive cavity centers