

#### DESCRIPTION

The GLF72520 Load Switch is a fully integrated 4 A NMOS load switch with I<sub>Q</sub>Smart™ advanced technology. The device is targeted for the mobile computing and data storage markets as a high performance, low cost solution for load switch applications.

The GLF72520 has a constant low on-resistance of 10 mΩ at room temperature and a supply current consumption of less than 100 nA at lower input voltages. The fixed rise time helps prevent undesirable inrush current when turned on and the internal EN pin pulldown resistor ensures the device remains in the shutdown mode when disabled. In shutdown mode the GLF72520 draws only 7 nA typical at 3.6 V input supply voltage.

The GLF72520 features a reverse current blocking protection. When the GLF72520 is disabled, it prevents reverse current flowing from the output to the input source.

The GLF72520 is available in a wafer level chip scale package (WLCSP) measuring 0.97 mm x 1.47 mm x 0.55 mm with a 0.5 mm pitch. This allows the user to save board space and increase cost savings.

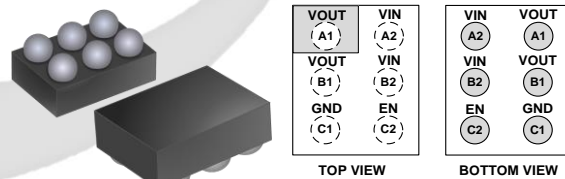
#### FEATURES

- Supply Voltage Range: 0.8 V to 3.6 V
- Low R<sub>ON</sub>: 10 mΩ Typ
- I<sub>OUT</sub> Max: 4 A
- Ultra-Low I<sub>Q</sub>:
  - 60 nA Typ at 0.8 V<sub>IN</sub>
  - 65 nA Typ at 1.0 V<sub>IN</sub>
  - 70 nA Typ at 1.2 V<sub>IN</sub>
- V<sub>OUT</sub> Rise Time
  - 1150 us at 0.8 V<sub>IN</sub>
  - 800 us at 3.3 V<sub>IN</sub>
  - 780 us at 3.6 V<sub>IN</sub>
- Internal EN Pull-Down Resistor
- Reverse Current Blocking Protection When Disabled
- Operating Temperature Range: - 40 to 85 °C
- HBM: 6 kV, CDM: 2 kV
- 0.97 mm x 1.47 mm x 0.55 mm, 6 Bumps Wafer Level Chip Scale Package

#### APPLICATIONS

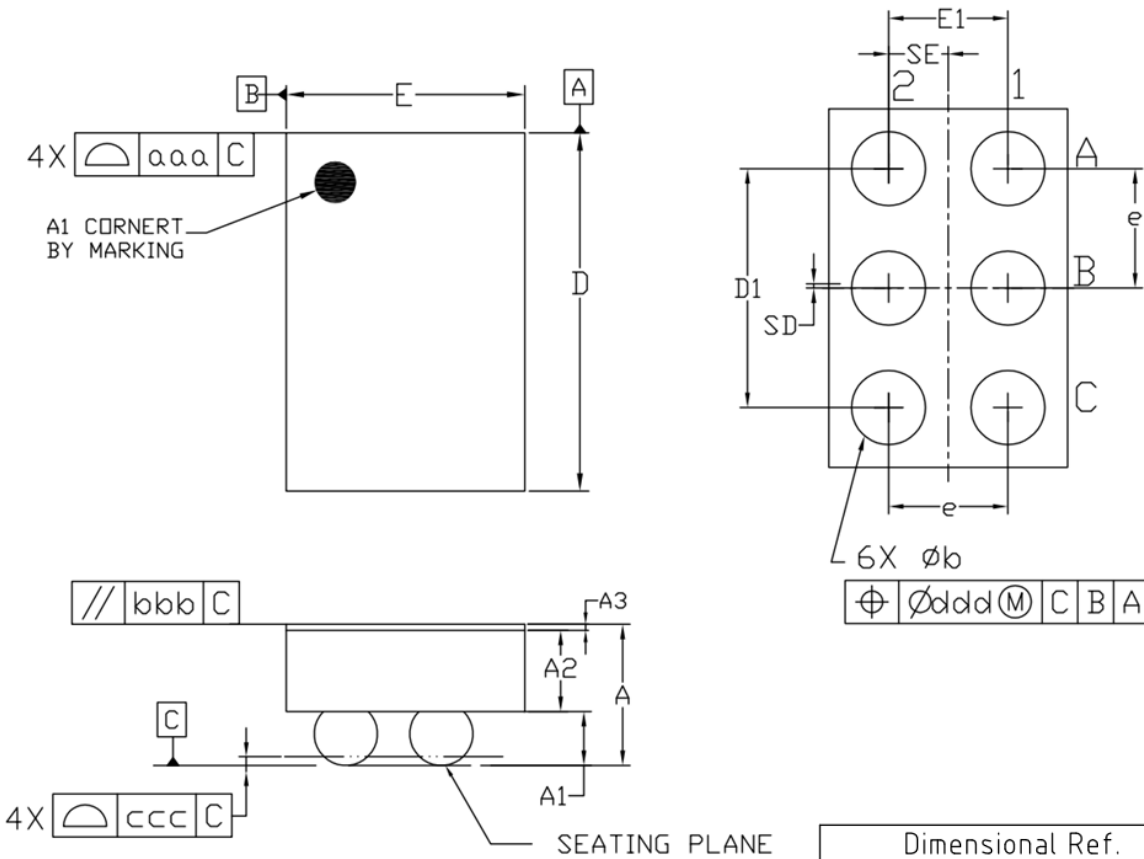
- Data Storage, SSD
- Wearables
- Low Power Subsystems

#### PACKAGE



0.97 mm x 1.47 mm x 0.55 mm, 0.5 mm Pitch

**WLCSP PACKAGE OUTLINE**



ER

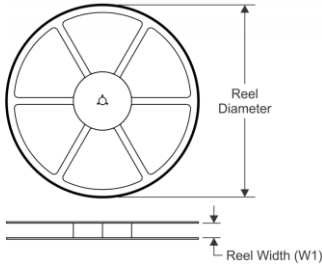
Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.500	0.550	0.600
A1	0.225	0.250	0.275
A2	0.250	0.275	0.300
A3	0.020	0.025	0.030
D	1.460	1.470	1.485
E	0.960	0.970	0.985
D1	0.950	1.000	1.050
E1	0.450	0.500	0.550
b	0.260	0.310	0.360
e	0.500 BSC		
SD	0.000 BSC		
SE	0.250 BSC		
Tol. of Form&Position			
aaa	0.10		
bbb	0.10		
ccc	0.05		
ddd	0.05		

**Notes**

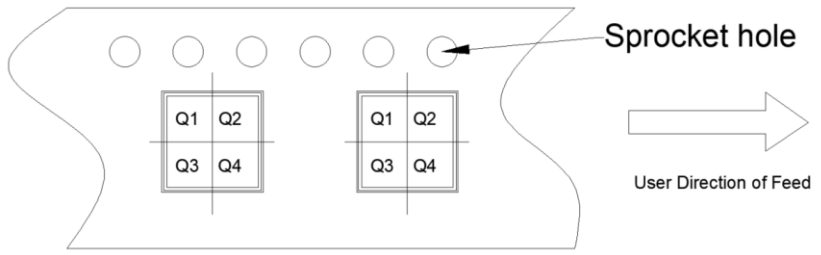
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGRESS)
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.
3. A3: BACKSIDE LAMINATION

**TAPE AND REEL INFORMATION**

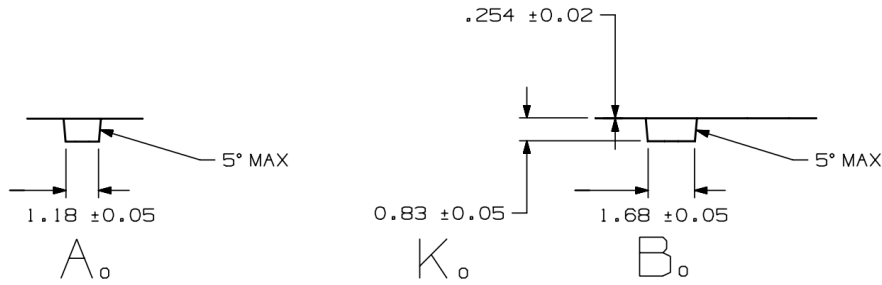
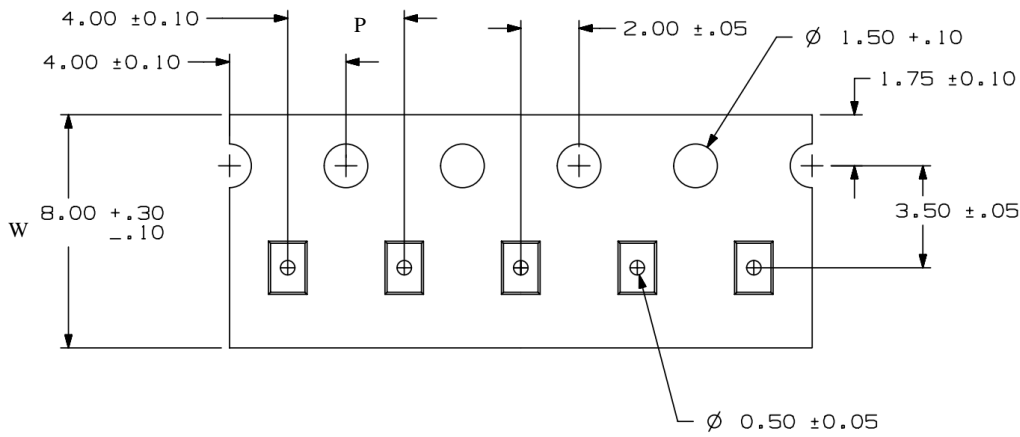
**REEL DIMENSIONS**



**QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE**



**TAPE DIMENSIONS**



Device	Package	Pins	SPQ	Reel Diameter(mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF72520	WLCSP	6	3000	180	9	1.18	1.68	0.83	4	8	Q1

**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

单击下面可查看定价，库存，交付和生命周期等信息

[>>GLF\(杰夫微\)](#)