

DESCRIPTION

The GLF72511 Load Switch is a fully integrated 2A NMOS load switch with I_QSmart™ 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 GLF72511 has a constant low on-resistance of 27 mΩ at room temperature. The fixed rise time helps prevent undesirable inrush current when turned on and the internal EN pin pull-down resistor ensures the device remains in the shutdown mode when disabled. In shutdown mode the GLF72511 draws only 6 nA typical at 3.6 V input supply voltage.

The GLF72511 is available in a wafer level chip scale package (WLCSP) measuring 0.97 mm x 0.97 mm x 0.55mm with a 0.5 mm pitch. This allows the user to save board space and increase cost savings.

The GLF72511 features a reverse current blocking protection. When the GLF72511 is disabled, it prevents reverse current flowing from the output to the input source.

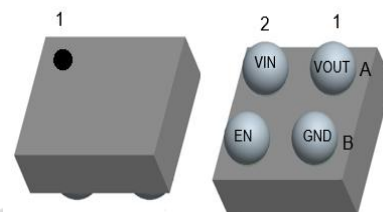
FEATURES

- Supply Voltage Range : 0.8 V to 3.6 V
- Low R_{ON} : 27 mΩ Typ at Supply Voltage Range
- I_{OUT} Max : 3 A
- Ultra-Low I_Q :
 - 50 nA Typ at 0.8 V_{IN}
 - 60 nA Typ at 1.0 V_{IN}
 - 80 nA Typ at 1.2 V_{IN}
- Integrated Slew Rate Control Driver
- Reverse Current Blocking Protection When Disabled
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- HBM : 6 kV, CDM : 2 kV
- Ultra-Small : 0.97mm x 0.97mm x 0.55mm Wafer Level Chip Scale Package

APPLICATIONS

- Wearables
- Data Storage, SSD
- Low Power Subsystems

PACKAGE



0.97 mm x 0.97 mm x 0.55 mm WLCSP

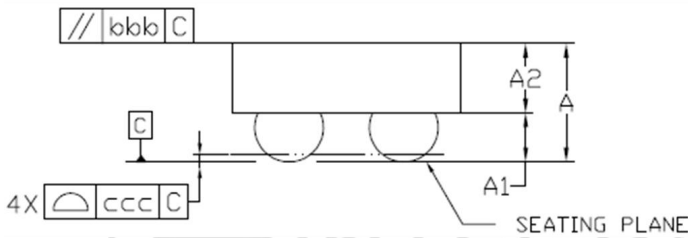
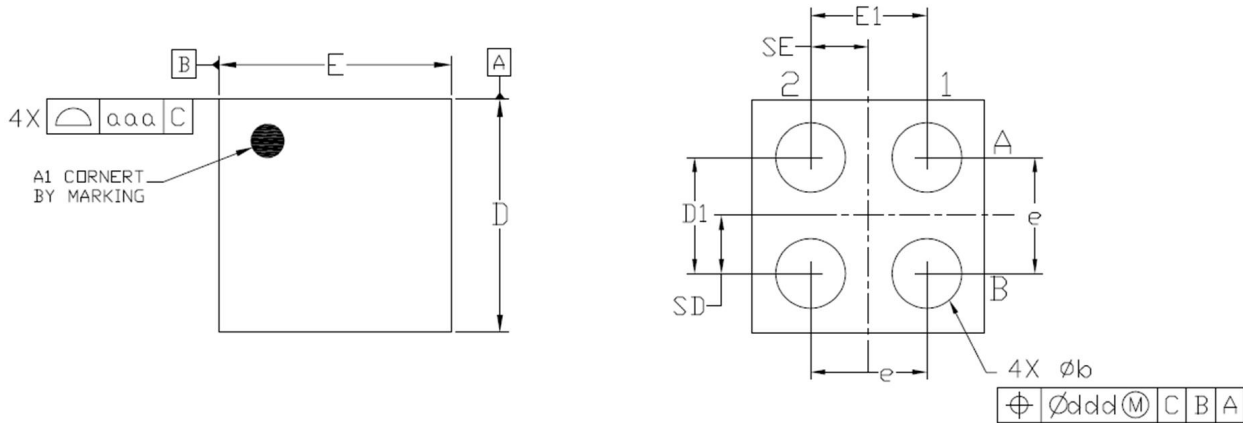
GLF72511



INTEGRATED POWER

3 A Ultra Low Current Consumption N-channel Load Switch with Lower Input Voltage Range and Reverse Current Blocking

PACKAGE OUTLINE



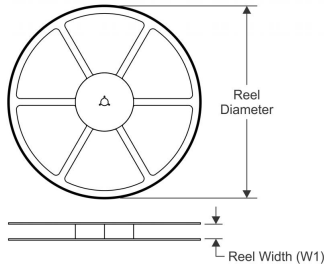
Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.500	0.550	0.600
A1	0.225	0.250	0.275
A2	0.275	0.300	0.325
D	0.960	0.970	0.985
E	0.960	0.970	0.985
D1	0.450	0.500	0.550
E1	0.450	0.500	0.550
b	0.260	0.310	0.360
e	0.500 BSC		
SD	0.250 BSC		
SE	0.250 BSC		
Tol. of Form&Position			
aaa	0.10		
bbb	0.10		
ccc	0.05		
ddd	0.05		

Notes

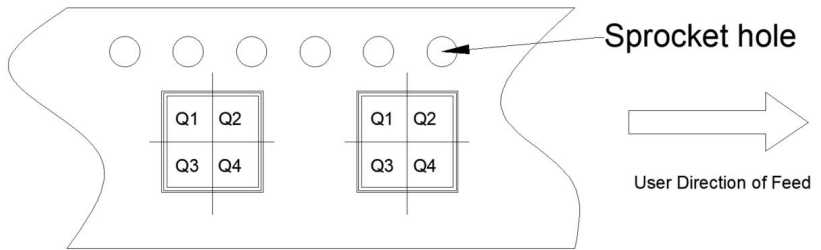
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.

TAPE AND REEL INFORMATION

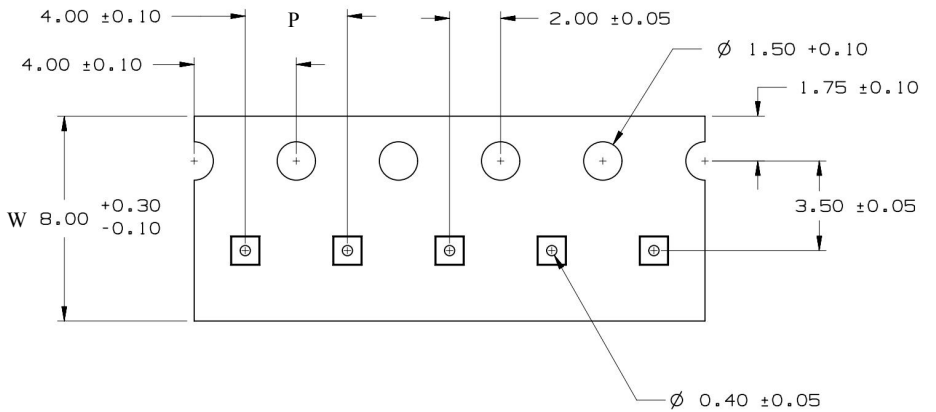
REEL DIMENSIONS



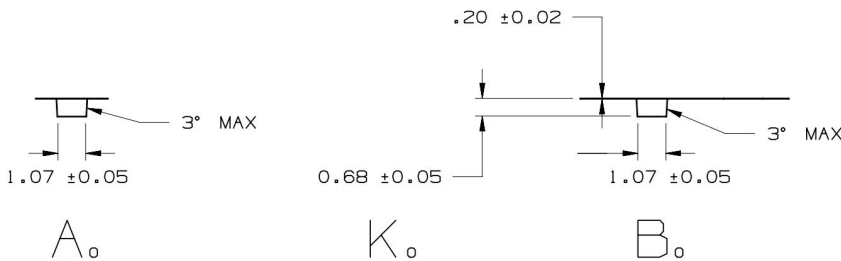
QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE



TAPE DIMENSIONS



POWER



Device	Package	Pins	SPQ	Reel Diameter(mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF72511	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

C0: Dimension designed to accommodate the component thickness

W: Overall width of the carrier tape

P: Pitch between successive cavity centers