

#### DESCRIPTION

The GLF78131 is an ultra-efficient, IQSmart™ LoadSwitch with three independent and identical load switches integrated. Each load switch features an ultra-efficient IQSmart™ technology that supports some of 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 GLF78131 integrated slew rate control can also enhance system reliability by mitigating bus voltage swings during switching events. Where uncontrolled switches can generate high inrush current that result in voltage droop and/or bus reset events, the slew rate control specifically limits inrush current during turn-on to minimize voltage droop.

The GLF78131 Load Switch device supports 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 reduces operating cost.

The GLF78131 is utilizing a wafer level chip scale package with 12 bumps in a 1.27 mm x 1.67 mm die size and a 0.4 mm bump pitch.

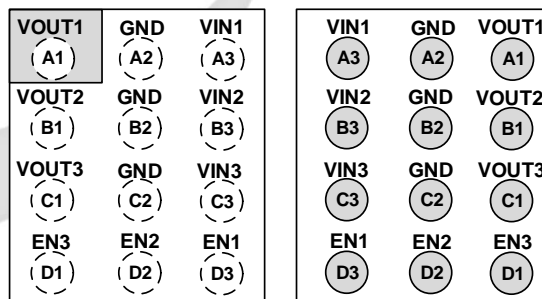
#### FEATURES

- Each Channel is identical
- Ultra-Low  $I_Q$ : 6 nA Typ @ 5.5 V<sub>IN</sub>
- Ultra-Low  $I_{SD}$ : 23 nA Typ @ 5.5 V<sub>IN</sub>
- Low  $R_{ON}$  = 60 mΩ Typ @ 5.5 V<sub>IN</sub>
- $I_{OUT}$  Max = 1.5 A
- Supply Voltage Range: 1.1 V to 5.5 V  
6 V abs max
- Controlled Rise Time: 500 μs at 3.3 V<sub>IN</sub>
- Internal EN Pull-Down Resistor
- Integrated Output Discharge Switch
- Temperature Range: -40 to 85 °C
- HBM: 6 kV, CDM: 2 kV

#### APPLICATIONS

- Low Power Subsystems
- Thin Mobile Devices & Wearables
- IoT Devices

#### PACKAGE

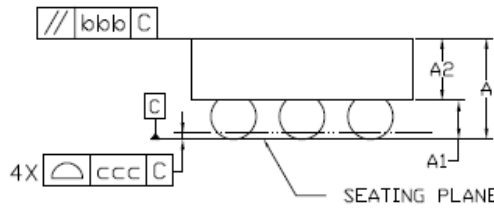
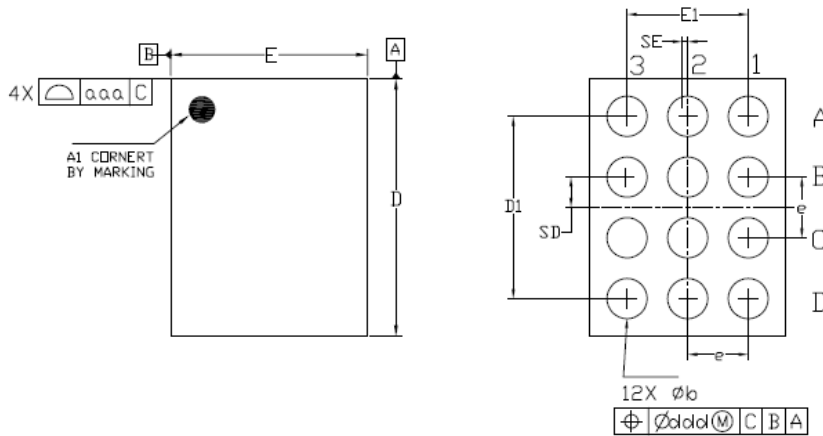


TOP VIEW

BOTTOM VIEW

GLF78131 : 1.27 mm x 1.67 mm x 0.55 mm

**PACKAGE OUTLINE**



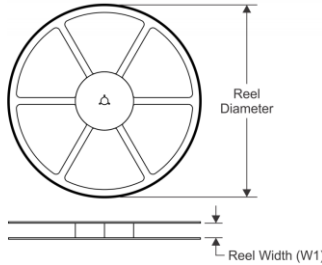
Dimensional Ref.			
REF.	Min.	Nom.	Max.
A	0.500	0.550	0.600
A1	0.175	0.200	0.225
A2	0.325	0.350	0.375
D	1.655	1.670	1.685
E	1.255	1.270	1.285
D1	1.150	1.200	1.250
E1	0.750	0.800	0.850
b	0.215	0.265	0.315
e	0.400 BSC		
SD	0.200 BSC		
SE	0.000 BSC		
Tol. of Form & Position			
aaa	0.10		
bbb	0.10		
ccc	0.05		
ddd	0.05		

Notes

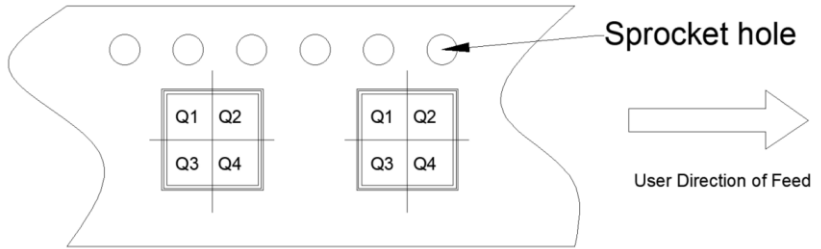
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.

### TAPE AND REEL INFORMATION

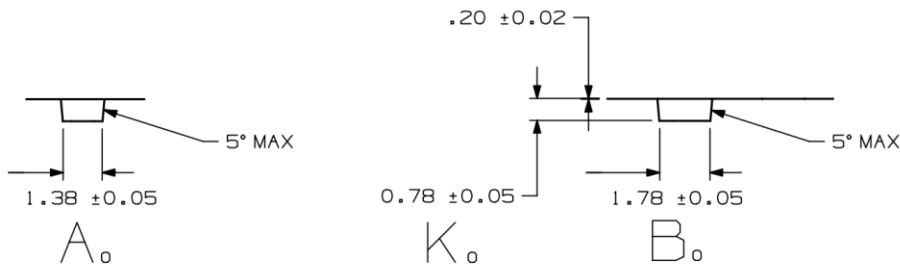
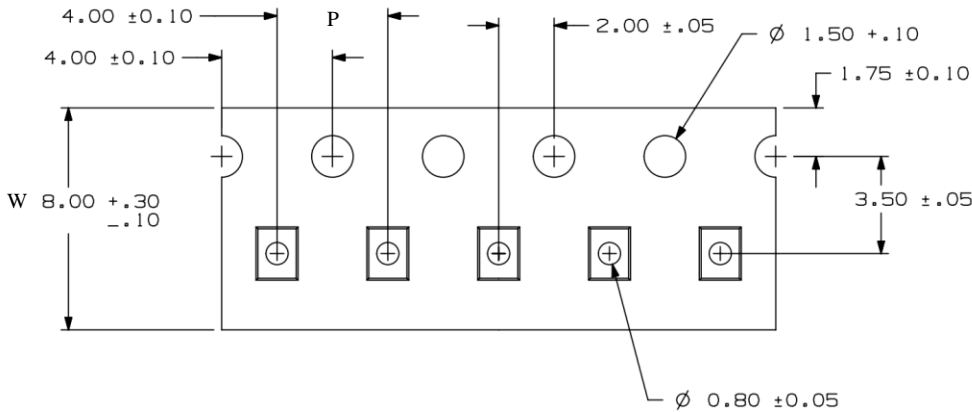
#### REEL DIMENSIONS



#### QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE



#### TAPE DIMENSIONS



Device	Package	Pins	SPQ	Reel Diameter(mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF78131	WLCSP	12	3000	180	9	1.38	1.78	0.78	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\(杰夫微\)](#)