

GLF73510 Nano-Current Consumed, IoSmart™ Battery Protection Switch

Product Brief

DESCRIPTION

The GLF73510 is an I_QSmart^{TM} ultra-efficiency, 2 A rated switch with the accurate turn-off threshold to prevent a battery from being discharged deeply.

When the voltage of a battery decreases to the off threshold voltage level, the GLF73510 is turned off, consuming an ultra-low leakage current (I_{SD}) to save the battery. The GLF73510 remains in the off state until a higher voltage is applied to V_{OUT} pin. Note that the GLF73510 is enabled only by V_{OUT} voltage with a charger output.

With the higher V_{OUT} voltage from a charger applied, the GLF73510 is fully turned on and monitors V_{BAT} voltage. When the V_{OUT} voltage of a charger is less than the on threshold voltage, a battery can be charged through the body diode of the main switch.

In case that a charged battery is assembled without a higher V_{OUT} applied, the GLF73510 continues to stay at the sleep mode, consuming an ultra-low leakage current (I_{SD}) to save the battery, during shipping or storage.

The GLF73510 is available in 0.97 mm x 0.97 mm x 0.55 mm wafer level chip scale package (WLCSP).

FEATURES

Off Threshold Voltage to Protect Battery
Discharge

V_{TH_OFF}: V_{BAT}=3.05 V

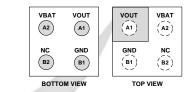
Contact GLF for a different VTH level

- Switch is activated only by the V_{OUT} voltage of a charger output
- Ultra-Low Iq: 500 nA Typ @ VBAT=3.6 V
 - Ultra-Low I_{SD}: 2 nA Typ @ V_{BAT} =1.1 V 6 nA Typ @ V_{BAT} =3.6 V
- Low R_{ON} : 30 mΩ Typ @ V_{BAT}=3.6 V 28 mΩ Typ @ V_{BAT}=4.2 V
- IOUT Max : 2 A
- Temperature Range: -40 to 85 °C
- HBM: 6kV, CDM: 2 kV
- Ultra-Small : 0.97 mm x 0.97 mm WLCSP

APPLICATIONS

- Battery protection
- Wearables / IoT Devices
- Mobile Devices
- Mobile Medical

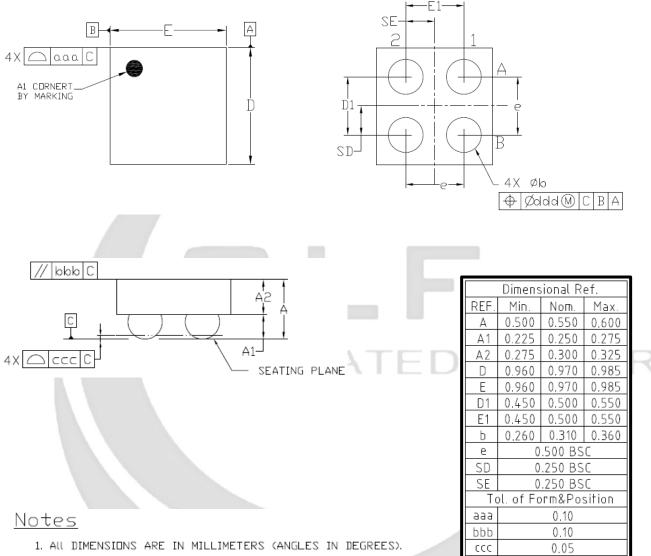
PACKAGE



0.97 mm x 0.9 7mm x 0.55 mm WLCSP

GLF73510 INTEGRATED POWER Nano-Current Consumed, IQSmart[™] Battery Protection Switch

PACKAGE OUTLINE



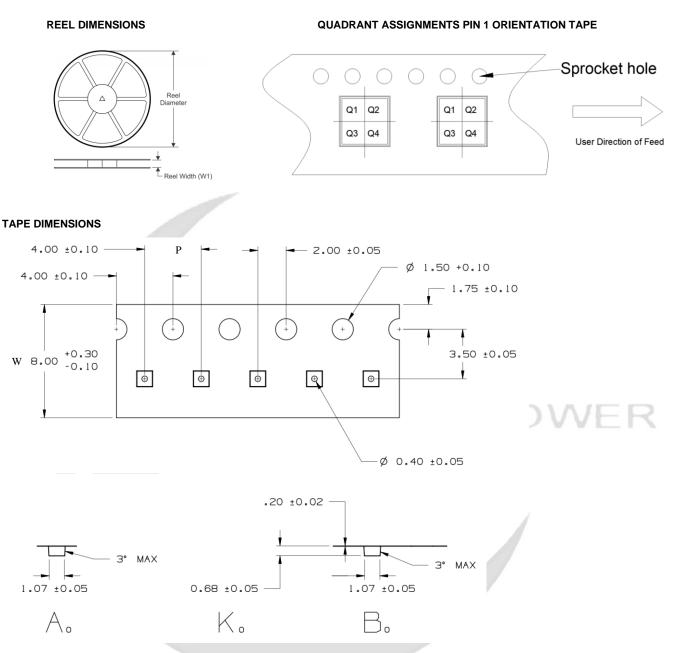
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994.

ddd

0.05

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TAPE AND REEL INFORMATION



Device	Package	Pins	SPQ	Reel Diameter(mm)	Reel Width W1	A0	В0	К0	Ρ	w	Pin1
GLF73510	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

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)