

#### DESCRIPTION

The GLF2331B is an advanced technology fully integrated power switch for applications required precision output current limiting. The GLF2331B features also various protection functions such as under voltage lockout, true reverse current blocking (TRCB), short circuit protection, and thermal shutdown.

The GLF2331B provides a built-in output voltage slew rate control to limit the inrush current and voltage surges. The FLGB output pin can be used to send a signal of fault events to the system controller. The integrated thermal shutdown (TSD) insures complete protection for the switch during output current limit and short circuit conditions. The GLF2331B is an ideal switch for USB power supply.

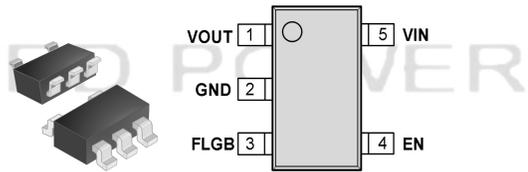
#### APPLICATIONS

- USB ports
- Notebooks
- Telecom Systems

#### FEATURES

- Fixed Constant Output Current Limit, 1.3 A Typ
- Input Range: 2.5 V to 5.5 V
- Low  $R_{ON}$ : 53 m $\Omega$  Typ. @ 5 V<sub>IN</sub>
- Ultra-Low  $I_Q$ : 18  $\mu$ A Typ. @ 5 V<sub>IN</sub>
- Ultra-Low  $I_{SD}$ : 35 nA Typ. @ 5 V<sub>IN</sub>
- Under Voltage Lockout Protection
- Output Voltage Slew Rate Control
- True Reverse Current Blocking Protection
- Short Circuit Protection
- Deglitched Fault Flag Indication
- Integrated Output Discharge Switch
- Thermal Shutdown Protection

#### PACKAGE



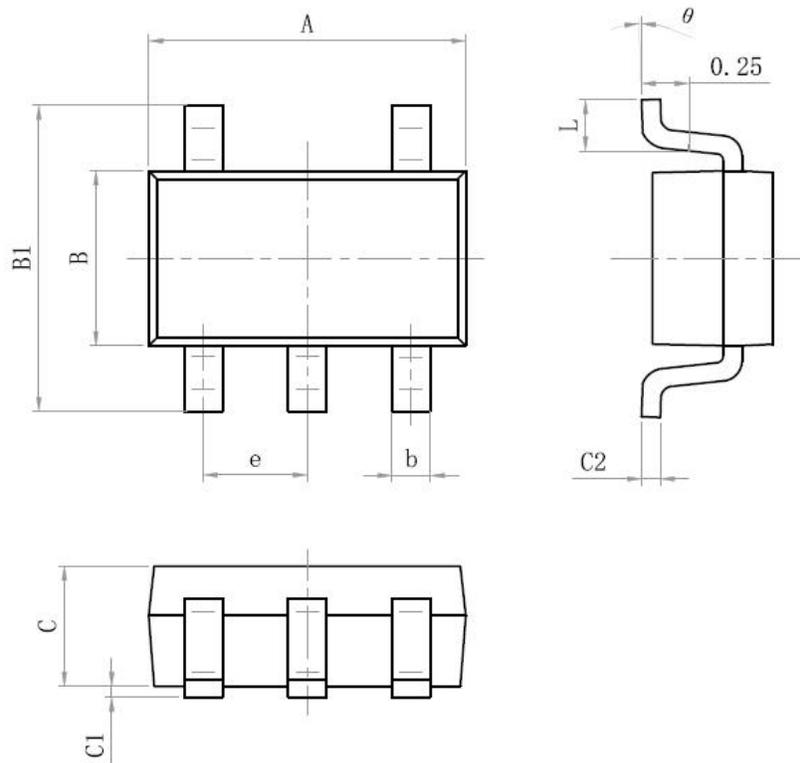
SOT23-5L

#### DEVICE ORDERING INFORMATION

Part Number	Top Mark	Current Limit ILIM	Output Discharge	Fault Flag FLGB	EN Activity	Package
GLF2331B-T1G7	KE	1.3 A Typ Fixed	300 $\Omega$	Yes	High	SOT23-5L

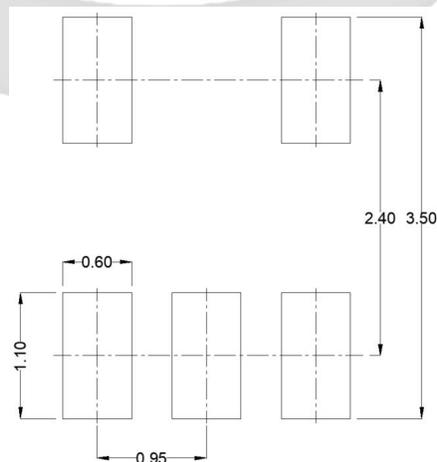
**PACKAGE OUTLINE**

Size Mark	Min (mm)	Max (mm)	Size Mark	Min (mm)	Max (mm)
A	2.82	3.02	C	1.05	1.15
e	0.95 (BSC)		C1	0.03	0.15
b	0.28	0.45	C2	0.12	0.23
B	1.50	1.70	L	0.35	0.55
B1	2.60	3.00	$\theta$	0°	8°



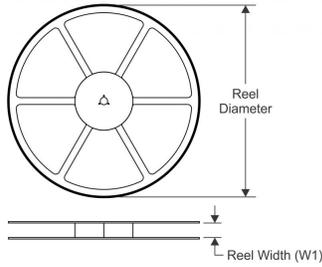
VER

**Recommended Footprint**

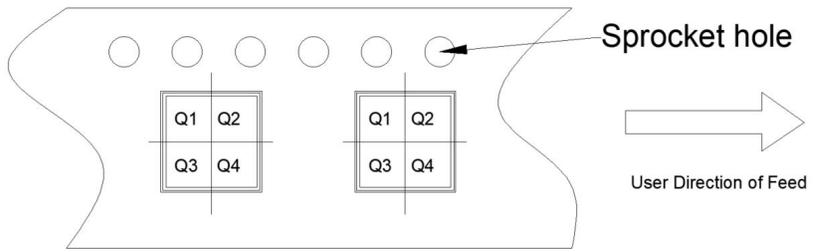


**TAPE AND REEL INFORMATION**

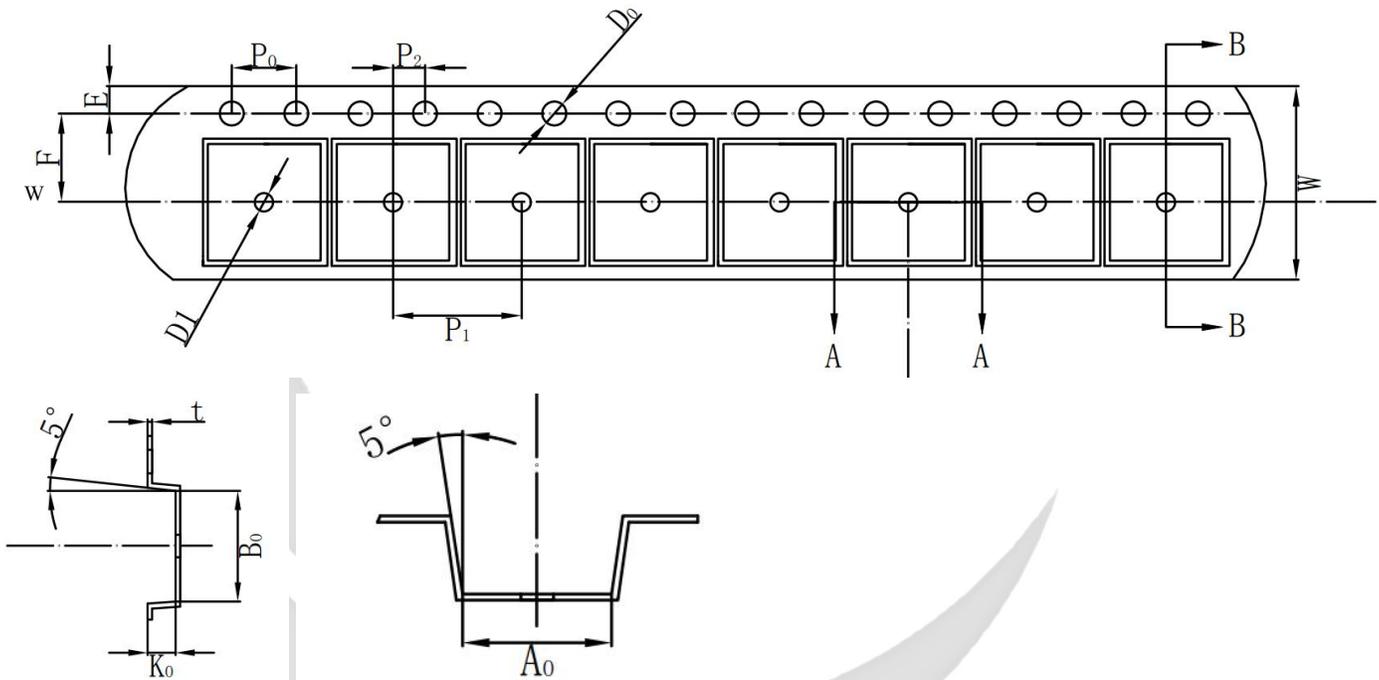
**REEL DIMENSIONS**



**QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE**



**TAPE DIMENSIONS**



Device	Package	Pins	SPQ	Reel Diameter (mm)	Reel Width W1	A0	B0	K0	P1	W	Pin1
GLF2331B-T1G7	SOT23-5	5	3000	178	9	3.25	3.30	1.38	4	8	Q3

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

P1: Pitch between successive cavity centers