

DESCRIPTION

The GLF1595T and GLF1595LT are fully integrated 1 A load switches. The device is ideal for the mobile computing and data storage markets as a high-performance solution for load switch applications.

The GLF1595T and GLF1595LT support ultra-low VIN range applications, with an input supply voltage range of 0.1 V to 3.3 V and require an additional VBIAS power supply.

The GLF1595T and GLF1595LT are available in a ultra-thin wafer level chip scale package (WLCSP) measuring 0.67 mm x 1.02 mm x 0.35 mm with a 0.35 mm pitch. This allows the user to save board space.

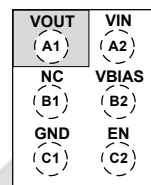
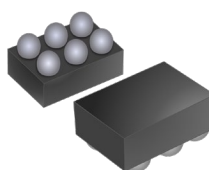
FEATURES

- Ultra-Low Input Voltage Range, V_{IN} :
 - 0.1 V to 3.3 V
- Supply Voltage Range, V_{BIAS} : $V_{IN}+2$ V to 5.5 V
- Ultra-Low Quiescent Current, I_{Q_BIAS}
 - 10 nA Typ. at $V_{IN} = 0.1$ V, $V_{BIAS} = 2.1$ V
 - 14 nA Typ. at $V_{IN} = 3.3$ V, $V_{BIAS} = 5.5$ V
- Shutdown Current, I_{SD_BIAS}
 - 14 nA Typ. at $V_{BIAS} = 5.5$ V
- Shutdown Current, I_{SD_VIN}
 - 7 nA Typ. at $V_{IN} = 5.5$ V
- Low On-Resistance, R_{ON}
 - 39 m Ω Typ. at $V_{IN} = 0.1$ V, $V_{BIAS} = 2.1$ V
 - 68 m Ω Typ. at $V_{IN} = 3.3$ V, $V_{BIAS} = 5.5$ V
- 1.0 A Maximum Continuous Output Current
- Reverse Current Blocking When Disabled
- Output Discharge Switch
- Operating Temperature Range
 - 40 °C to + 85 °C

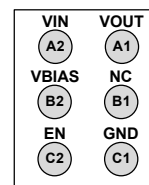
APPLICATIONS

- Smart Doorbell
- Portable Devices
- Ultra-Low-Power AI System Devices
- Laptop, Solid State Drive (SSD)
- Set-Top Box

PACKAGE



TOP VIEW



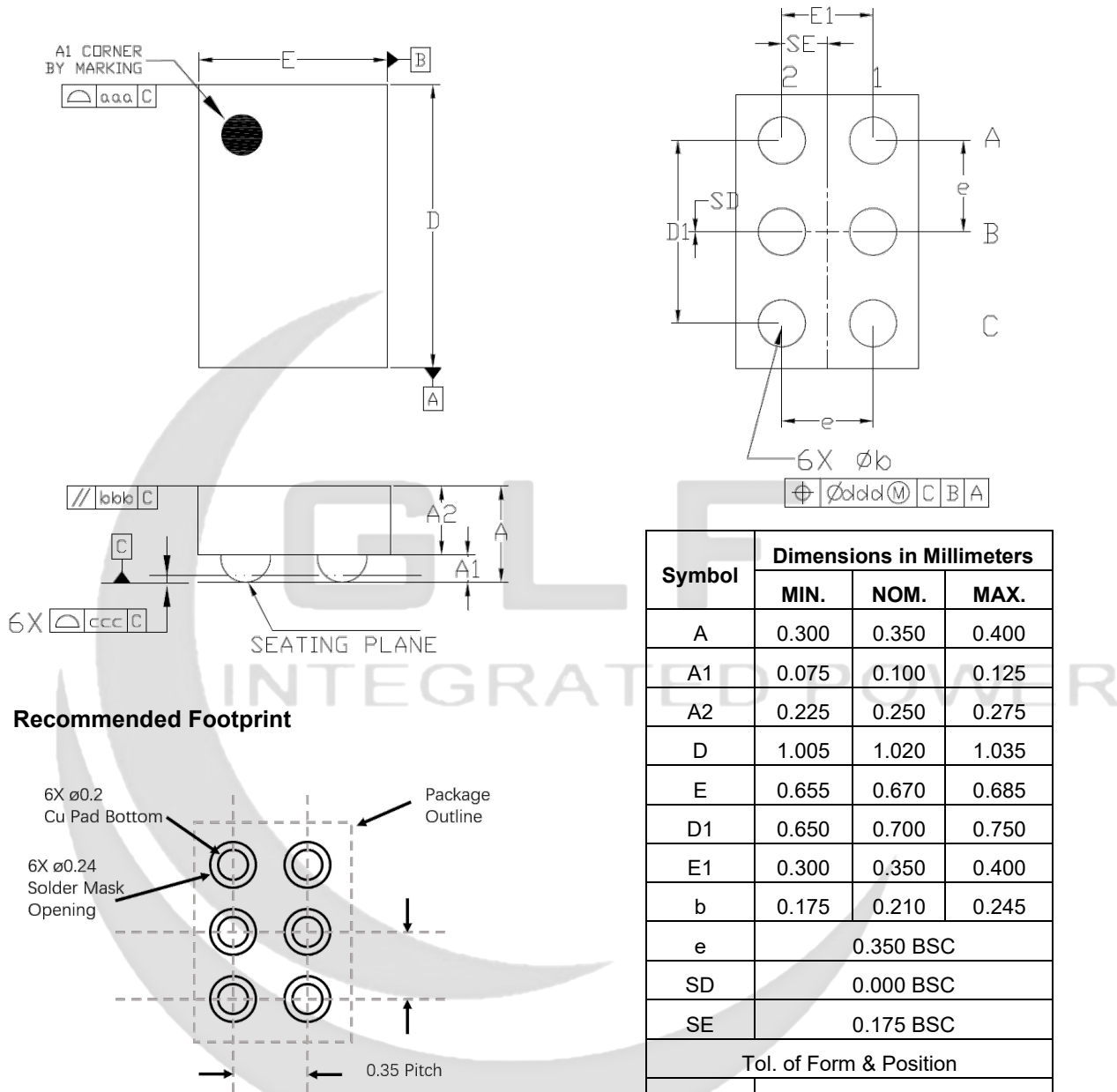
BOTTOM VIEW

0.67 mm x 1.02 mm x 0.35 mm Thin WLCSP

DEVICE ORDERING INFORMATION

Part Number	Top Mark	R_{ON} (Typ.) $V_{IN}=0.1$ V	Output Discharge (Typ.)	EN Activity	Package
GLF1595T-S97	HY	39 m Ω	150 Ω	High	0.67 mm x 1.02 mm x 0.35 mm Thin WLCSP
GLF1595LT-S97	JY			Low	

PACKAGE OUTLINE

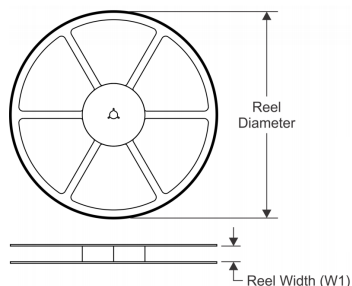


Notes

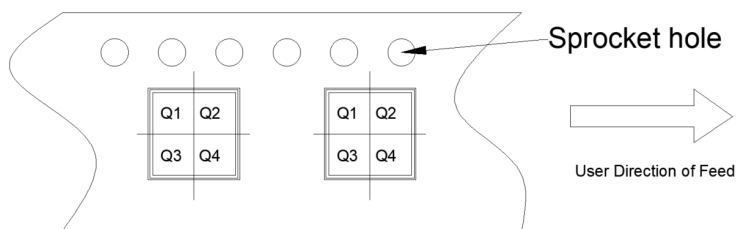
1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES)
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1994

TAPE AND REEL INFORMATION

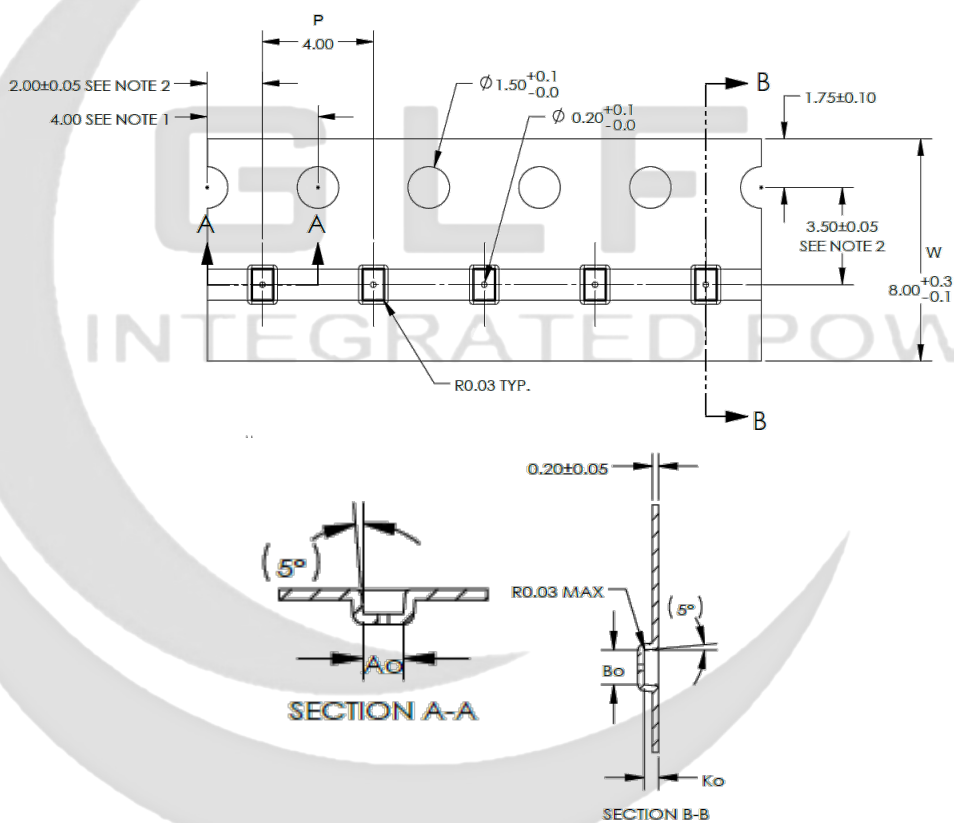
REEL DIMENSIONS



QUADRANT ASSIGNMENTS PIN 1 ORIENTATION TAPE



TAPE DIMENSIONS



Device	Package	Pins	SPQ	Reel Diameter (mm)	Reel Width W1	A0	B0	K0	P	W	Pin1
GLF1595T-S97	WLCSP	6	4000	180	9	0.77	1.12	0.47	4	8	Q1
GLF1595LT-S97											

Remark:

A0: Dimension designed to accommodate the component width

B0: Dimension designed to accommodate the component length

K0: Dimension designed to accommodate the component thickness

W: Overall width of the carrier tape

P: Pitch between successive cavity centers