

GENERAL DESCRIPTION

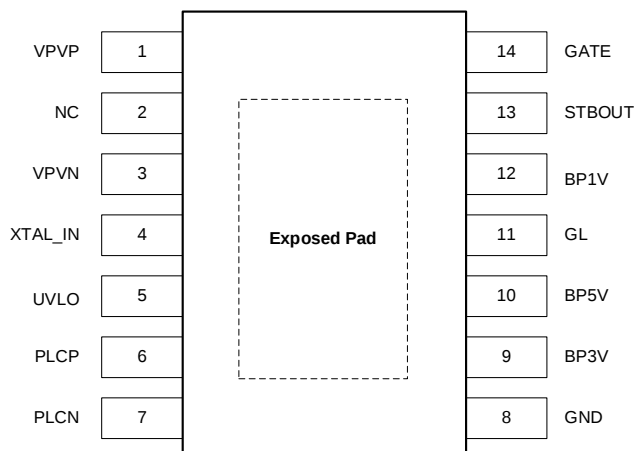
The SiLM6000S operates with input voltage from 10.5V to 110V and supports junction temperature between -40°C to 125°C.

- Receiver supports SunSpec™ Alliance “Communication Signal for Rapid Shutdown” power line communication protocol
- Provides 1.3V output voltage during system keep alive signal is absent
- Operates with PV voltage from 10.5V to 110V
- Integrated NFET driver
- Support flash test
- TSSOP14-EP package
- Junction temperature range: -40°C to 125°C

- Photovoltaic Rapid Shutdown
- PLC Communication Module (RX only)

Figure 1. Typical Application Circuit

PIN CONFIGURATION

Package	Pin Configuration (Top View)	
TSSOP14-EP		

PIN DESCRIPTION

Pin Number	Pin Name	Description
1	VPVP	PV positive input.
2	NC	No connection
3	VPVN	PV negative input
4	XTAL_IN	Input for the crystal oscillator.
5	UVLO	Output driver for external NFET. While VPVP voltage exceeds the UVLO threshold, UVLO turn off an external NFET.
6	PLCP	Line coupling input for power line communication
7	PLCN	Line coupling input for power line communication.
8	GND	IC ground.
9	BP3V	3.3V regulator output. Connect a 1uF capacitor between this pin and ground.
10	BP5V	5.0V regulator output. Connect a 1uF capacitor between this pin and ground. This BP5V also support external power supply to power the IC. The external voltage should be between 5.1V to 5.5V.
11	GL	Output driver for external NFET. During keep-alive mode, the GATE turn on an external NFET. While in shutdown mode, the LGATE turn off an external NFET.
12	BP1V	Internal Regulator output. The output voltage is programmable from 0.6V to 3.6V. Connect a 1uF capacitor between this pin and ground.
13	STBOUT	Output for shutdown mode. This pin should connect to the source of the external NFET.
14	GATE	Output driver for external NFET. During keep-alive mode, the GATE turn on an external NFET. While in shutdown mode, the GATE turn off an external NFET.
EPAD	Exposed Pad	The exposed pad should be soldered to an external ground plane underneath the IC for thermal dissipation.

ORDERING INFORMATION

Industrial Range: -40°C to +125°C

Order Part No.	Package	QTY
SiLM6000SMF-DG	TSSOP14-EP	5000/Reel

PACKAGE CASE OUTLINES

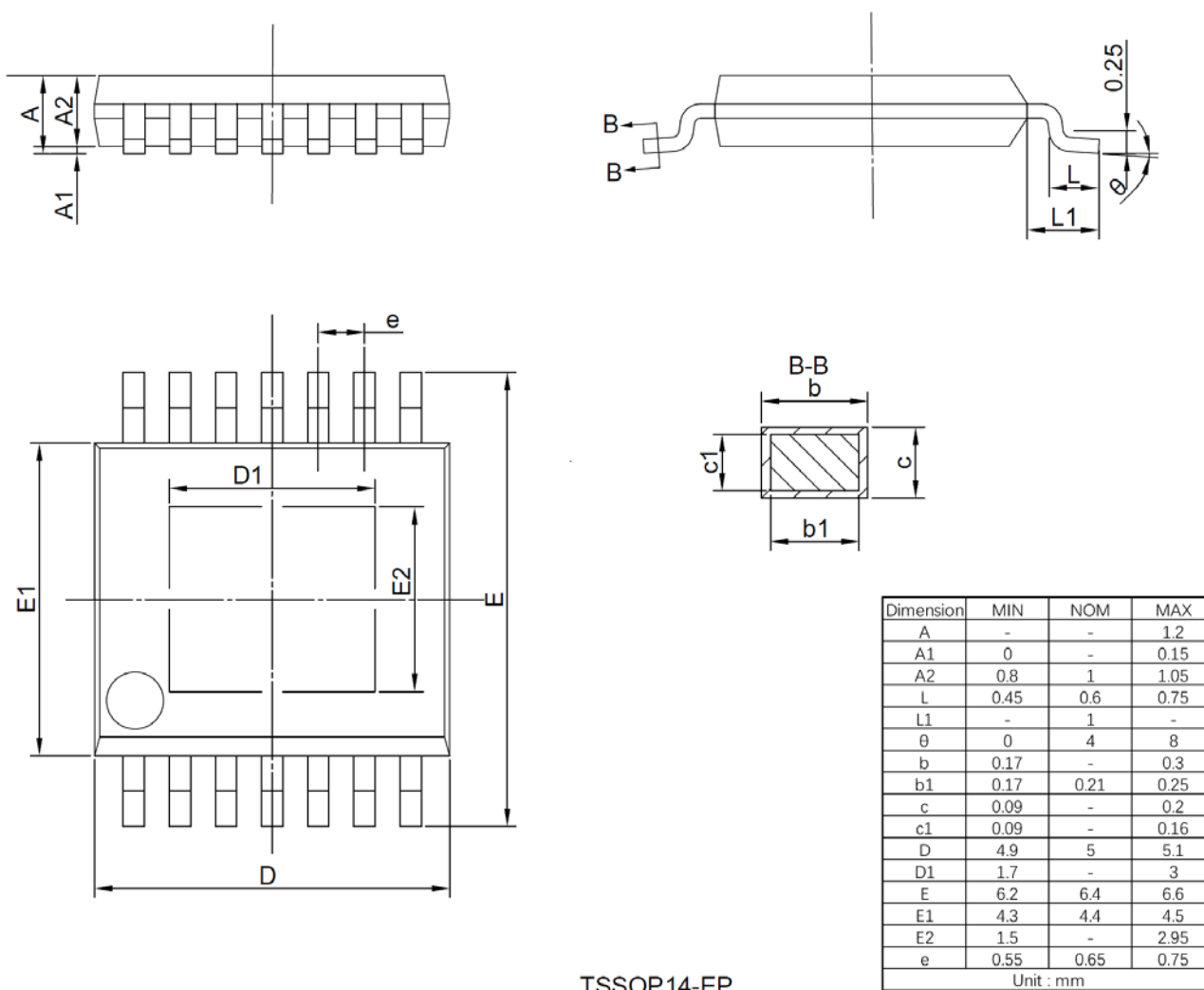


Figure 2. TSSOP14-EP Package Outline Dimensions