

Features

- VCCEN voltage range: 1.1V ~ 5.5V
- COM/NO recommend voltage range: -3V~16V
- COMx to NOx On-resistance: typical 110mΩ each
- Max 1.5A continuous current capability each
- Peak 2.5A current (<1ms) capability each YHM1107A: 3.6V OVP (in NO1/2) YHM1107B: 5.8V OVP (in NO1/2)
 YHM1107C: 9.6V OVP (in NO1/2)
- -106dB THD
- -88dB Off Isolation and -96dB Cross talk
- OTP (Over Temperature Protection)
- Robust ESD capability:
 ±2kV HBM, ±1kV CDM

Applications

Smart Phone, AR/VR Device, Tablet PC, Wearable etc.

General Description

The YHM1107 family are high voltage low Ron dual pole single throw and bidirectional on/off switches with Max 18V tolerance in COM1/2 and NO1/2 PIN.

The YHM1107 family combine enable and supply pin. The switch is on when device is powered. Connect VCCEN to GND to turn-off the switch. The topology of the switch allows the signal over VCCEN without the need of an external discrete components.

The YHM1107 family have excellent on-resistance matching ($2m\Omega$ Typical) between SPST switch and onresistance flatness over whole signal range. These ensure perfect linearity and very low distortion for audio signal through.

YHM1107 does not have OVP function. YHM1107A supports 3.6V OVP in NO1/2. YHM1107B supports 5.8V OVP in NO1/2. YHM1107C supports 9.6V OVP in NO1/2. YHM1107A/B/C may do UART, CC, audio jack or other digital/analog interface protector.

The YHM1107 family come in a 2x3 array, 6-bump, 0.4mm pitch, 0.815mmx1.17mm wafer-level package (WLP).



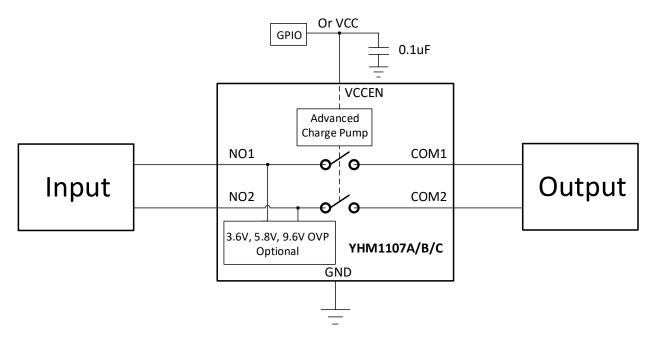


Fig 1. YHM1107 Internal Block and System Diagram



YHM1107 Pin Configurations

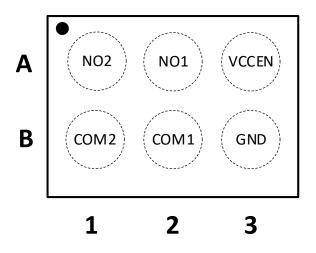


Fig 2. YHM1107 WLP-6 Pin Assignment(Top Through View)

YHM1107 WLP Pin Descriptions

WLP	Name	Description	
A1	NO2	Normally Open Terminal for SPST Switch 2	
A2	NO1	Normally Open Terminal for SPST Switch 1	
A3	VCCEN	Supply Voltage Enable Input, bypass VCCEN to GND with 0.1uF capacitor as close to the chip as possible	
B1	COM2	Common Terminal for SPST Switch 2	
B2	COM1	Common Terminal for SPST Switch 1	
B3	GND	Ground	

Function Table

VCCEN	SPST SWITCH 1	SPST SWITCH 2
0	COM1 TO NO1 SWITCH OFF	COM2 TO NO2 SWITCH OFF
1	COM1 TO NO1 SWITCH ON	COM2 TO NO2 SWITCH ON



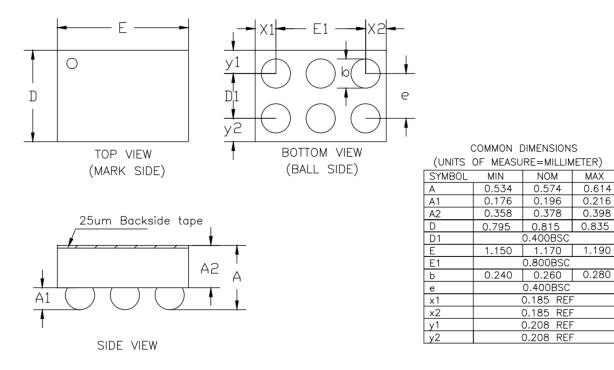
MAX

0.614

YHM1107A/B/C High Voltage Low Ron DPST Switch with OVP

Package Dimensions

WLCSP-6 0.815x1.17x0.574





Ordering Information

Part Number	Temp Range	Pin Package	Top Mark	MOQ
YHM1107AW6T	-40°C to 85°C	6 WLCSP	YWW LOT	3000
YHM1107BW6T	-40°C to 85°C	6 WLCSP	YWW LOT	3000
YHM1107CW6T	-40°C to 85°C	6 WLCSP	YWW LOT	3000

T = Tape and reel.

YWW: Date Code. Y = year, WW = week. LOT: The last three number of LOTID.