



# ORIENT

## Photo coupler

### Product Data Sheet

Part Number: OR-AQV258HP5

Customer: \_\_\_\_\_

Date: \_\_\_\_\_

**一级代理商：**

深圳市弗瑞鑫电子有限公司

地址：深圳市宝安区西乡大道302号金源商务大厦B座三楼

frxelec



## 1. Features

- (1) Battery Control in Automotive Fo

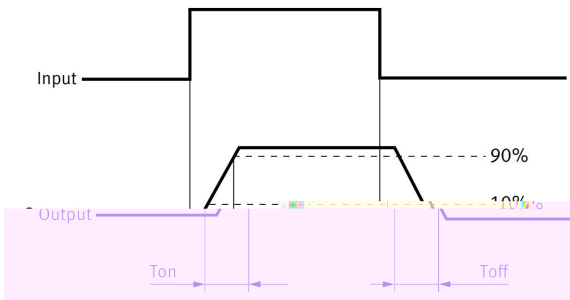


#### 4. Absolute Maximum Ratings (Ta=25

**5. Electrical Optical Characteristics at Ta=25 C**

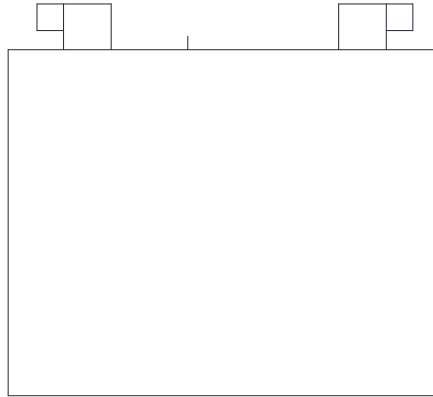
Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Input	Forward Voltage	VF	---	1.15	1.5	V	IF = 10mA
	Reverse Current	IR	---	---	10	μA	VR = 10V
Output	Off State leakage Current	Ileak	---	---	10	μA	IF = 0mA, VL = Max.
	On Resistance	Rd(ON)	---	50	100		IF = 5mA, IL = Max, t = 1s
	Output Capacitance	C(out)	---	85	---	pF	VL = 0V, f = 1MHz
Transfer Characteristics	LED turn on Current	IF(on)	---	1.8	3	mA	IL = Max.
	LED turn off Current	IF(off)	0.4	1.7	---	mA	IL = Max.
	Turn On Time*	Ton	---	1.2	2	ms	IF = 5mA, IL = Max,
	Turn Off Time*	Toff	---	0.06	0.2		
	Isolation Resistance	RI-O	5×10 <sup>10</sup>	1×10 <sup>12</sup>	---		V I-O = 500V DC
	Isolation Capacitance	CI-O	---	1.5	---	pF	V = 0V, f = 1MHz

\*Turn on/Turn off time



# Shenzhen Orient Components t

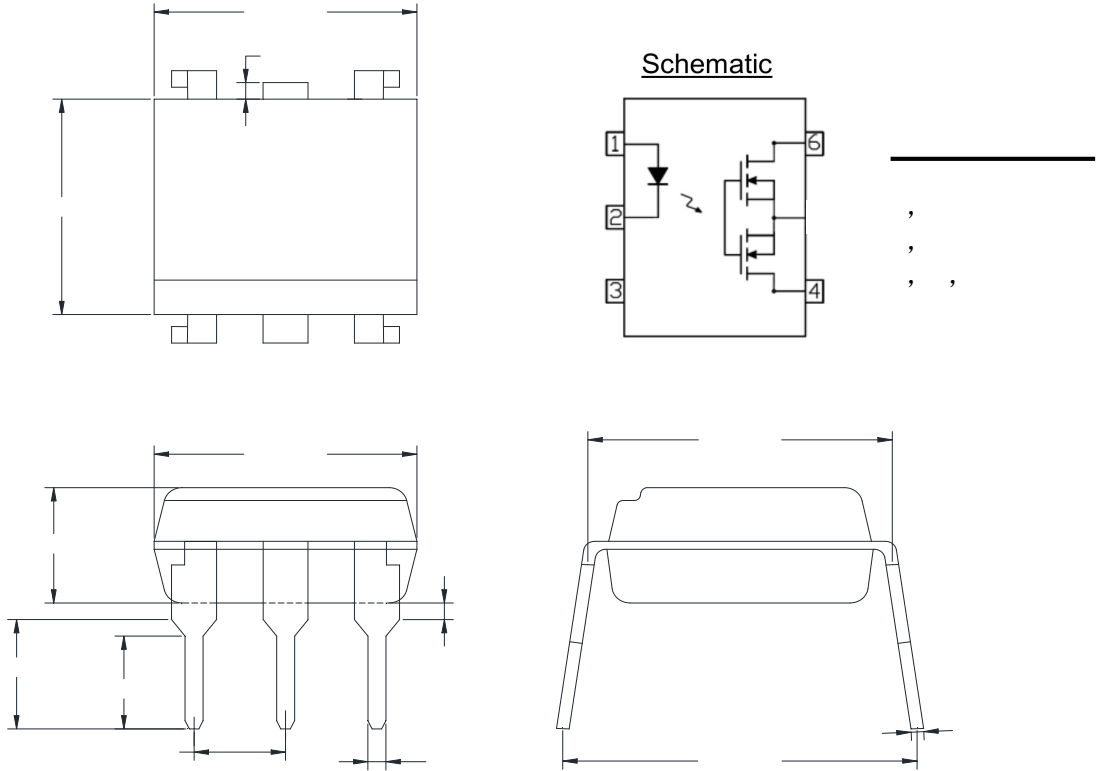
## 7. Naming Rule



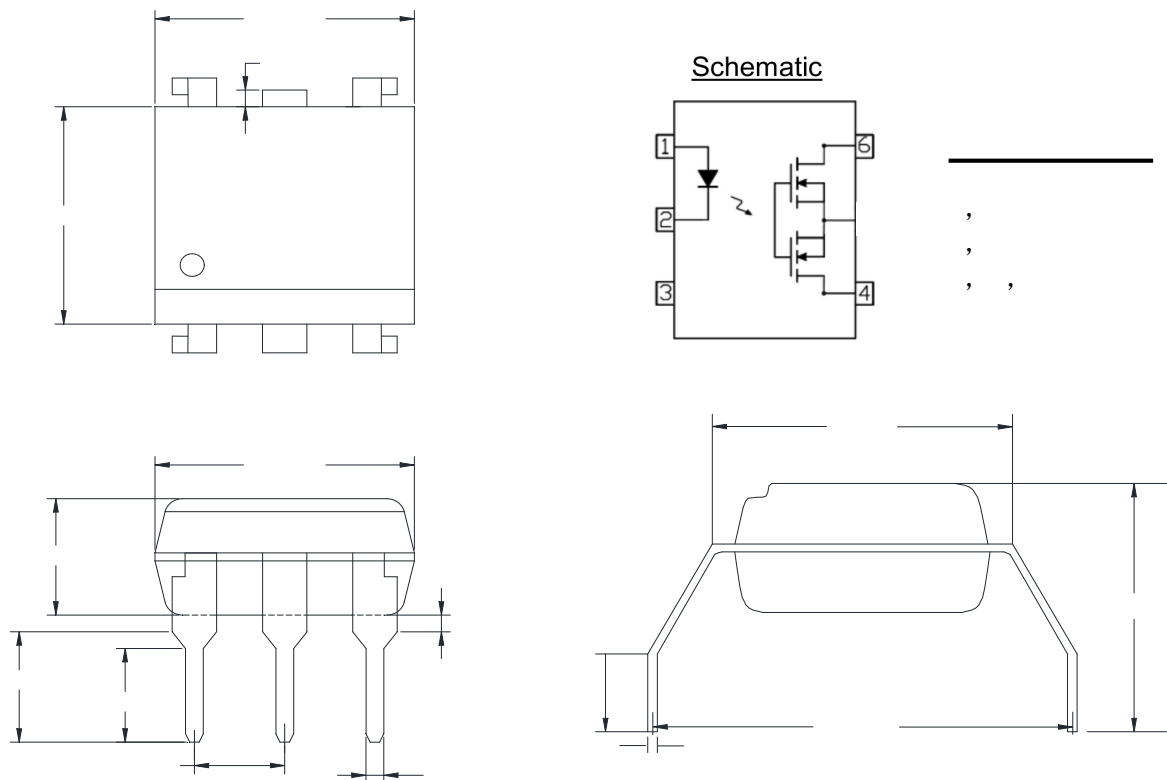
1. Manufacturer : ORIENT.
2. Part Number : AQV258H
3. Year Code : '22' means '2022' and so on.
4. Week Code : 01 means the first week, 02 means the second week and so on.
5. VDE Code  : (Optional)
6. Anode.
7. Characteristic code: H

### 8. Package Dimension

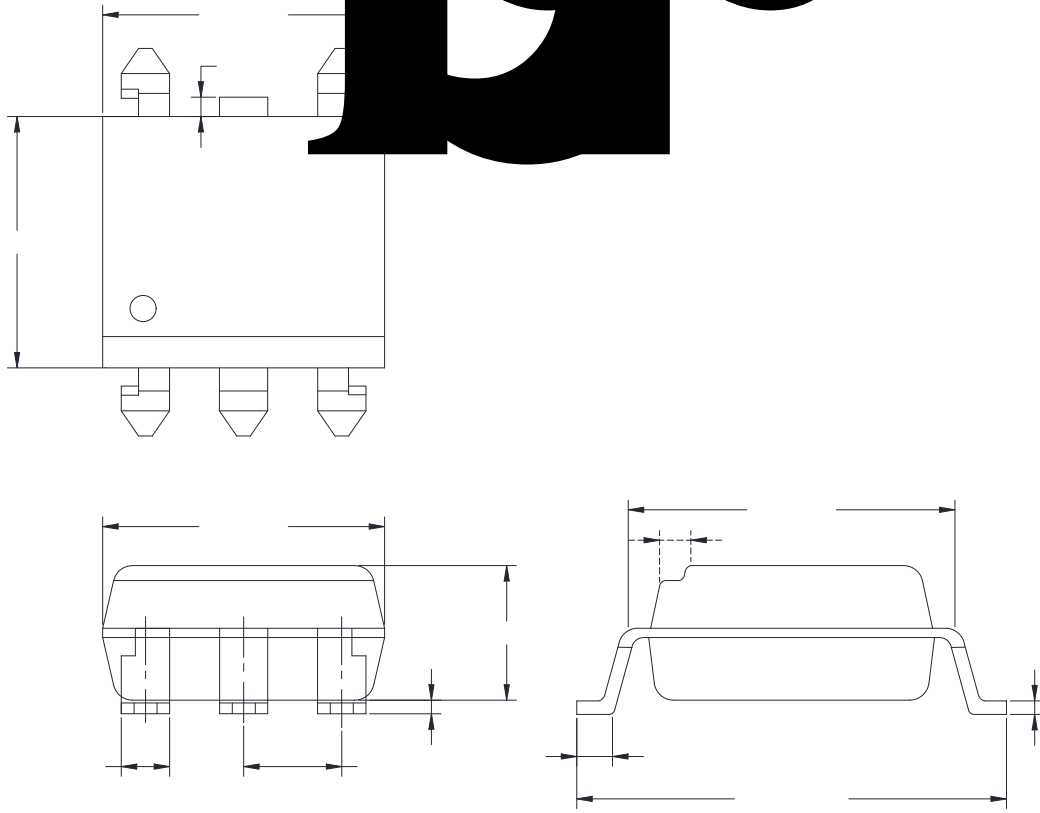
#### (1).OR-AQV258HP5



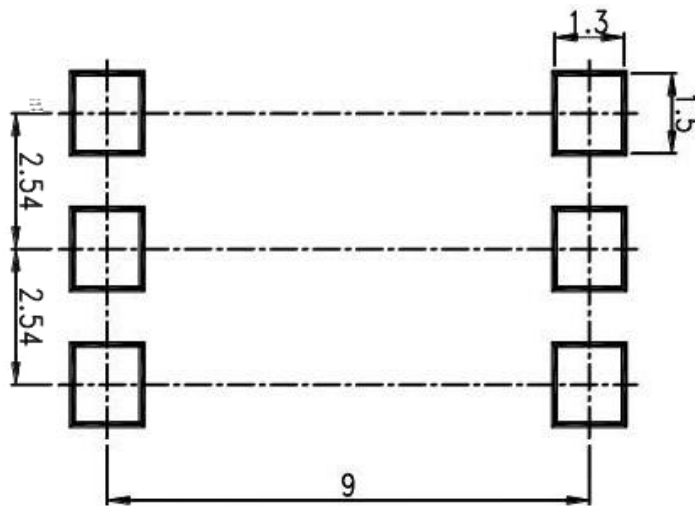
#### (2).OR-AQV258HP5M



(3).OR-AQV258HP5S



**9. Recommended pad layout for surface mount leadform**

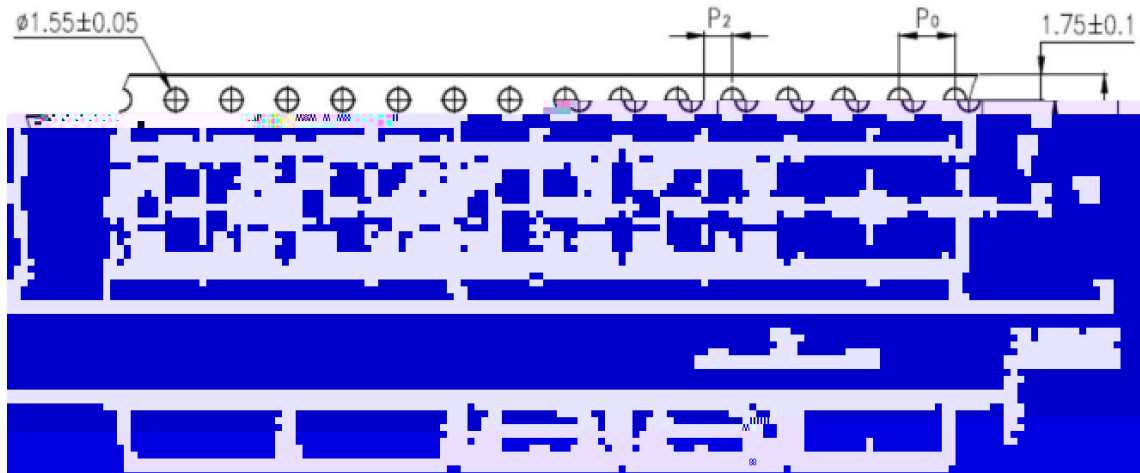


Unit: mm

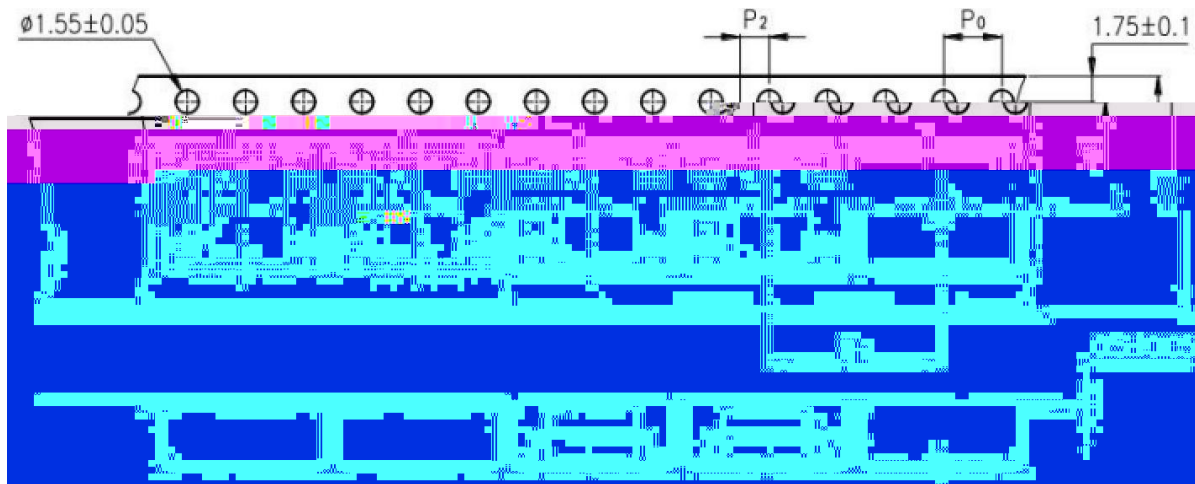


### 10. Taping Dimensions

(1).OR-AQV258HP5S-TA



(2).OR-AQV258HP5S-TA1



Description	Symbol	Dimension in mm (inch)
Tape wide	W	16±0.3 (0.63)
Pitch of sprocket holes	P <sub>0</sub>	4±0.1 (0.15)
Distance of compartment	F	7.5±0.1 (0.295)
	P <sub>2</sub>	2±0.1 (0.079)
Distance of compartment to compartment	P <sub>1</sub>	12±0.1 (0.472)

Package Type	TA/TA1
Quantities(pcs)	1000

## 11. Package Dimension

### (1) package dimension

DIP/M type

Packing Information	

SOP type

Packing Information	

### (2)Packing Label Sample



**Note:**

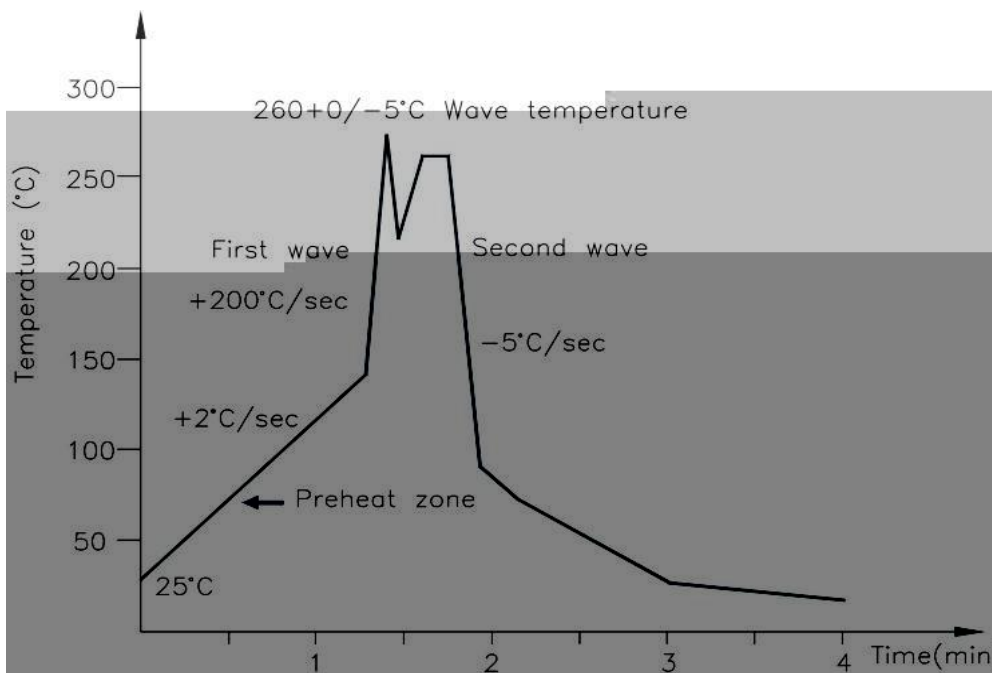
1. Material Code :Product ID.
2. P/N :Contents with "Order Information" in the specification.
3. Lot No. :Product data.
4. D/C :Product weeks.
5. Quantity :Packaging quantity.

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**(3).Wave soldering (JEDEC22A111 compliant)**

One time soldering is recommended within the condition of temperature.

Temperature	260+0/-5°C
Time	10 sec
Preheat temperature	5 to 140°C
Preheat time	30 to 80 sec



**(3).Hand soldering b soldering iron**

Allow single lead soldering in every single process. One time soldering is recommended.

Temperature	380+0/-5°C
Time	3 sec max

### 13. Typical Electro-Optical Characteristics Curves

