



DESCRIPTION:

The products are 1MBd high-speed opto-couplers. The device is a small-outline coupler suitable for surface-mount assembly. It consists of a high-output-power infrared LED optically coupled to a high-speed photodiode-transistor chip. It is housed in the SOP5 package and guarantees a creepage distance of ≥ 5 mm, a clearance of ≥ 5 mm and an insulation thickness of ≥ 0.4 mm. Therefore, it meets the reinforced insulation class requirements of international safety standards. The products are widely used in programmable controllers, industrial inverters and switching power supplies.

MAIN FEATURES

High isolation 3750 VRMS

High speed – 1MBd typical

Operating temperature range -40°C to 110°C

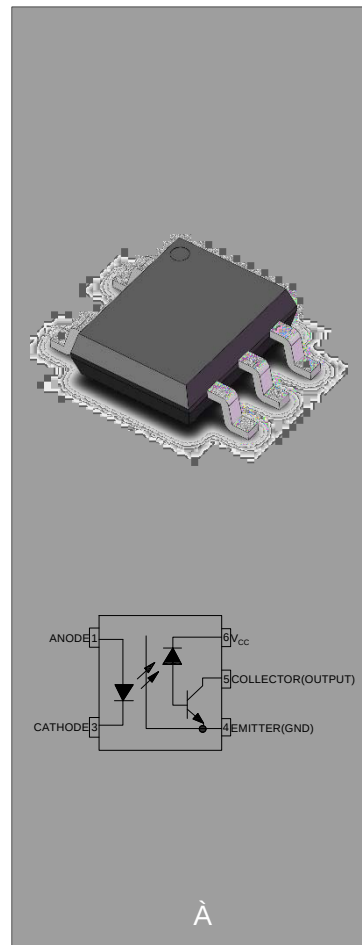
REACH & RoHS compliance

HBM: H3A; MM: M4; CDM: C3

CQC approved

VDE approved

UL approved



Truth Table

LED	Output
ON	L
OFF	H

ABSOLUTE MAXIMUM RATINGS (Temperature= 25°C)

Input	Forward Current	I_F	50	mA
	Peak Forward Current	I_{FP}	1^7	A
	Reverse Voltage	V_R	6	V
	Input Power Dissipation	P_D	100	mW
Output	Supply Voltage	V_{CC}	35	V
	Output Voltage	V_O	20	V



Output Current

I_o



	Common Mode Transient Immunity at Logic High	CM _H	I _F =0mA, V _{CM} =400Vpp, R _L =4.1kΩ	15	20	-	kV/μs
	Common Mode Transient Immunity at Logic Low	CM _L	I _F =16mA, V _{CM} =400Vpp, R _L =4.1kΩ	-15	-20	-	kV/μs

ORDERING INFORMATION

J	OC	H	A	2	1	A	-M5	/
JieJie Microelectronics Co., Ltd.	Opto Coupler	High speed	Single OC	10V ØV _{CC} 0 35V	1MBd high speed	A:CTR 0 20% B:20% ØCTR 0 60% C:60% ØCTR 0 120%	SOP5	None:T1 R:T2

Packing Quantity	
Option	Quantity
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MARKING



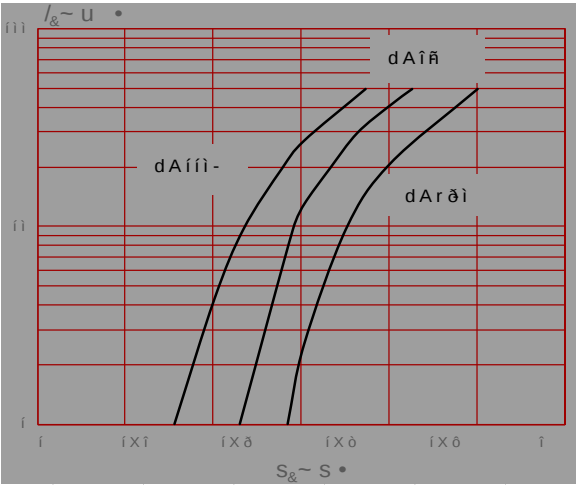
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LOT NO.

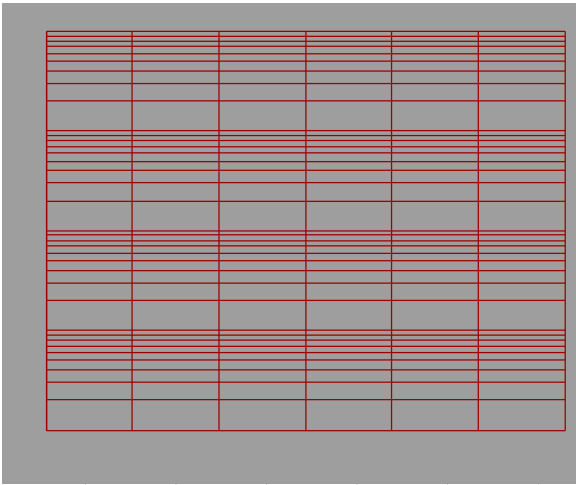


Characteristics Curves

Forward Current vs. Forward Voltage

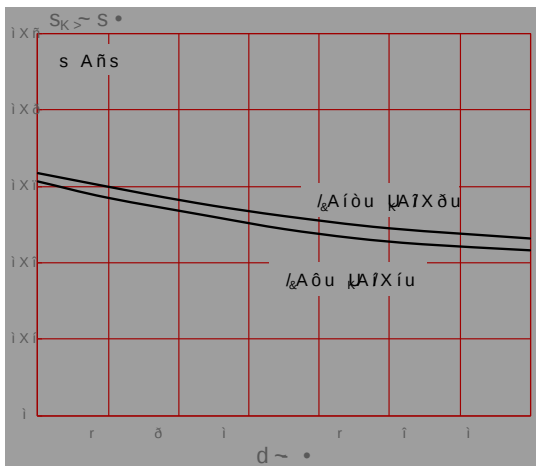


High Level Output Current vs. Ambient Temperature

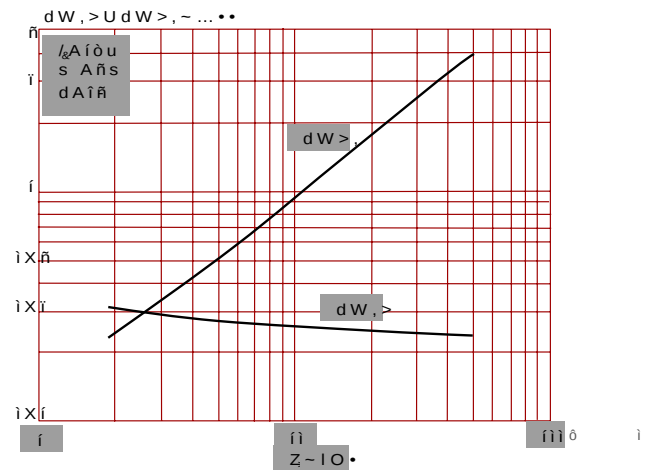




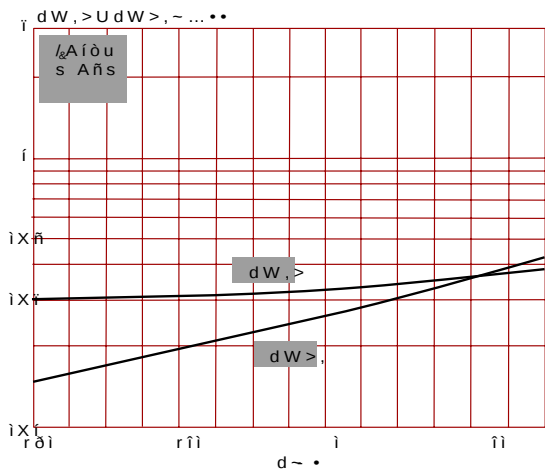
Low Level Output Voltage vs. Ambient Temperature



Propagation Delay vs. Load Resistance

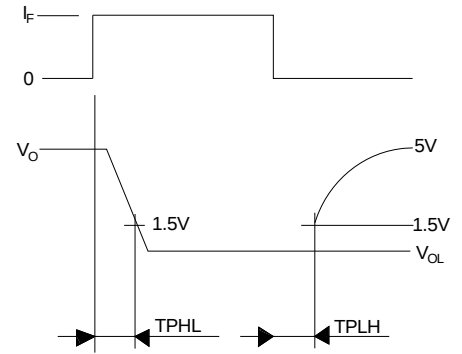
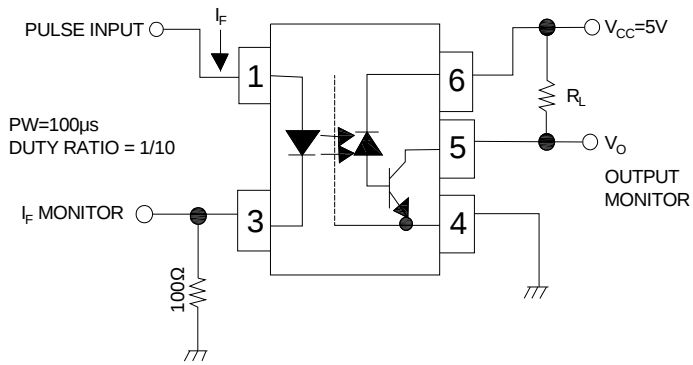


Propagation Delay vs. Ambient Temperature



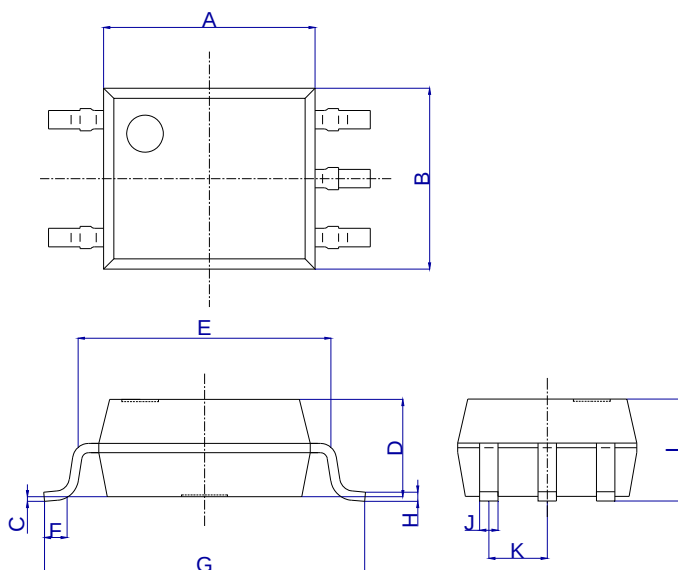


TEST CIRCUITS



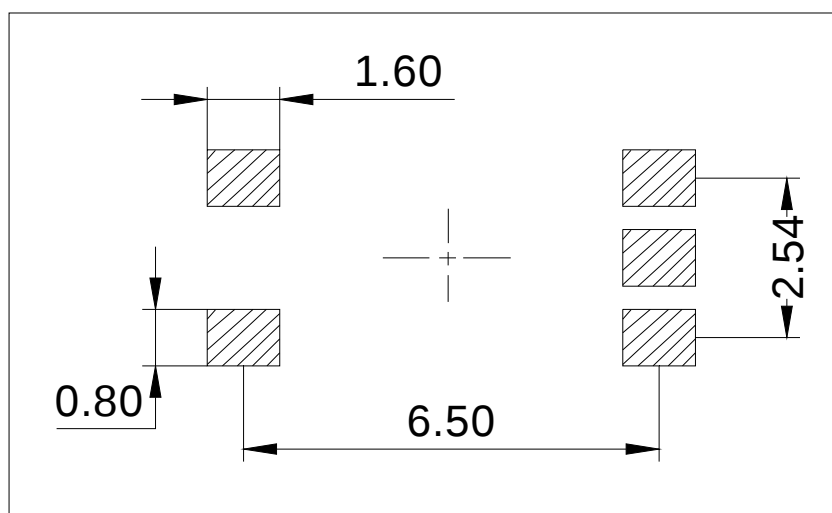


Package Dimension (Unit: mm)



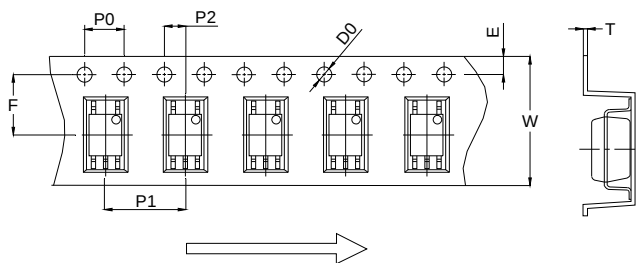
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.80	0.173		0.189
B	3.60		4.20	0.142		0.165
C	0.00		0.20	0.000		0.008
D	1.90		2.30	0.075		0.091
E	5.00		5.60	0.197		0.220
F	0.34		0.94	0.013		0.037
G	6.70		7.30	0.264		0.287
H	0.10		0.30	0.004		0.012
I	2.00		2.40	0.079		0.094
J	0.25		0.55	0.010		0.022
K	1.02		1.52	0.040		0.060

RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

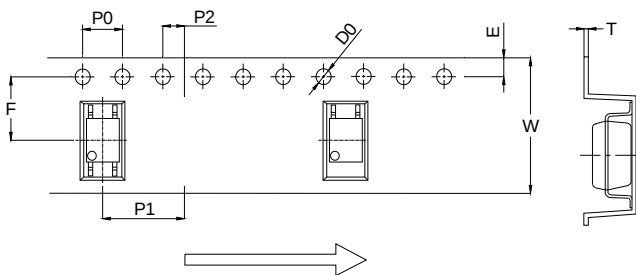




CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.60		0.059	0.063
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	7.90	8.00	8.10	0.311	0.315	0.319
P2	1.90	2.00	2.10	0.075	0.079	0.083
E	1.65	1.75	1.85	0.065	0.069	0.073
F	4.40	4.50	4.60	0.173	0.177	0.181
T	0.25	0.30	0.35	0.010	0.012	0.014
W	11.90	12.00	12.30	0.469	0.472	0.484



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0						
P0						
P1						
P2						
E						
F						
T						
W						



REFLOW INFORMATION

