DESCRIPTION:

The products are transistor opto-couplers in a plastic LSOP4 package. The device combines an AlGaAs infrared emitting diode as the emitter which is optically coupled to a silicon planar phototransistor detector. With the robust coplanar double mold structure, the device provides the most stable isolation feature. The products are widely used in switch mode power supplies, programmable controllers, household appliances, office equipment, etc.

MAIN FEATURES

High isolation 5000 VRMS
DC input with transistor output
Operating temperature range -55°C to 125°C
RoHS & REACH Compliance
HBM: H3A; MM: M4; CDM:C3
CQC approved
VDE approved
UL approved
AECQ101 approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Input			

Junction Temperature	T_j	135	
Storage Temperature	T_{stg}	-55~+125	
Soldering Temperature	T_{sol}	260	

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NOTE2 (} Œ í u] v µ š U Z X , X A ð ì • ò ì 9

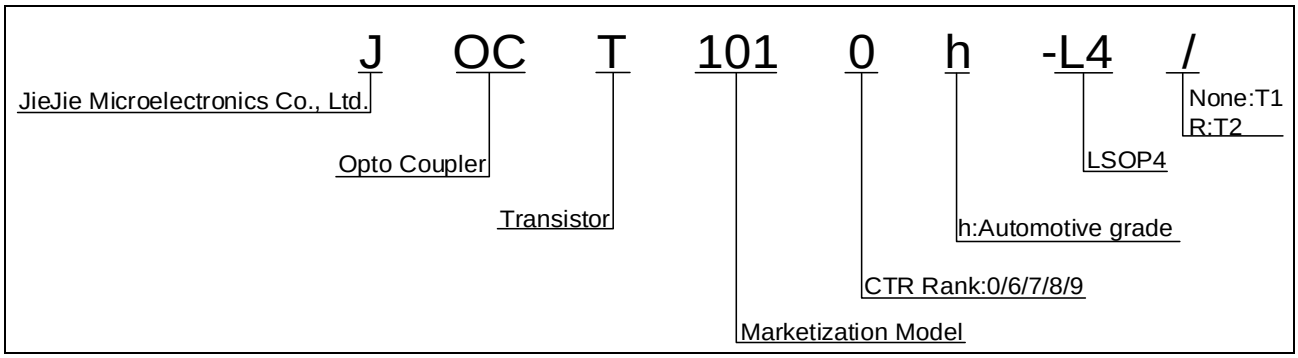
ELECTRICAL CHARACTERISTICS (Temperature=25°C)

Input	Forward Voltage	V_F	I_F=10mA	-	1.2	1.5	V
	Reverse Current	I_R	V_R=6V	-	-	1	μA
	Terminal Capacitance	C_t	V=0,f=1MHz	-	30	250	pF
	Collector-Emitter dark current	I_{CEO}	V_{CE}=20V, I_F=0	-	-	50	nA
Output	Collector-Emitter BVTECO , ¾ breakdown voltage	BV_{CEO}	I_C=0.1mA I_F=0	80	ь И	ж ь И	V
	Emitter-Collector breakdown voltage	BV_{ECO}	I_E=0.1mA I_F=0	7	-	-	V
	Current transfer ratio	CTR	I_F=5mA V_{CE}=5V	80	-	600	%

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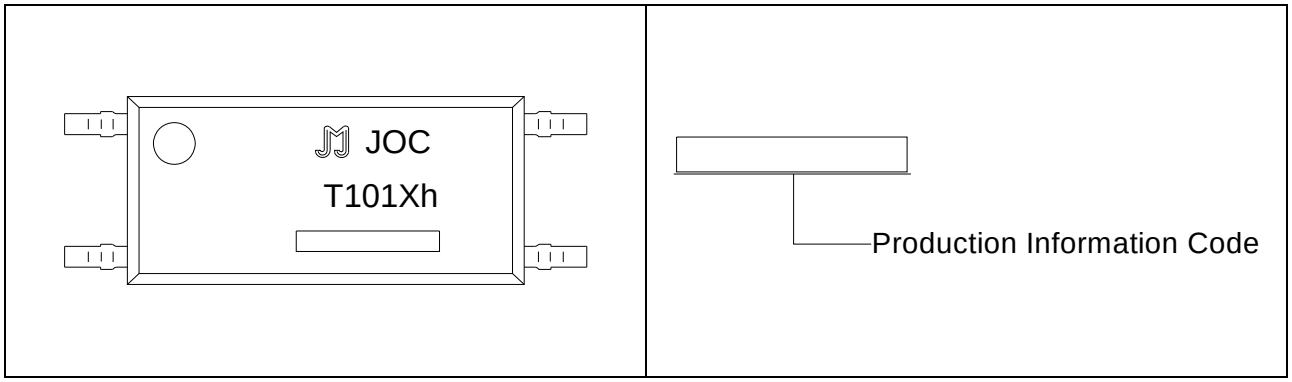
Transfer
Characteristics

ORDERING INFORMATION



Packing Quantity			
Option	**Quantity**	**Quantity – Inner box**	**Quantity –Outer box**
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MARKING



Characteristics Curves

Max. Allowable LED Forward Current vs. Ambient Temperature



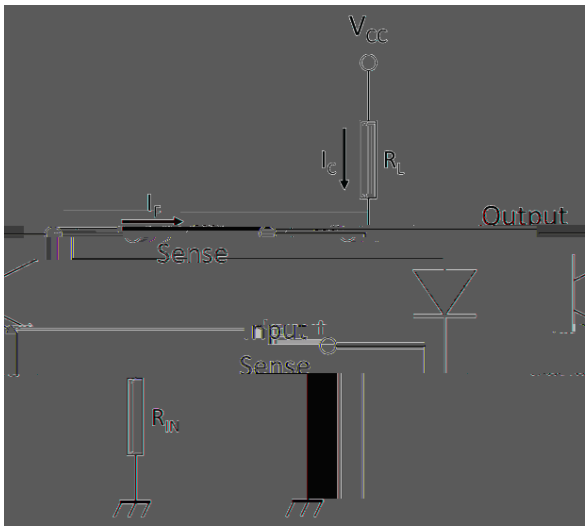
Collector Power Dissiption vs. Ambient Temperature

Normalized Current Transfer Ratio vs. Ambient Temperature

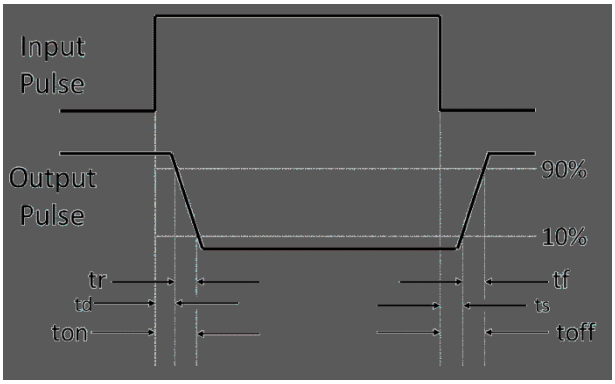
Normalized Collector-emitter Saturation Voltage vs. Ambient Temperature

Test Circuits

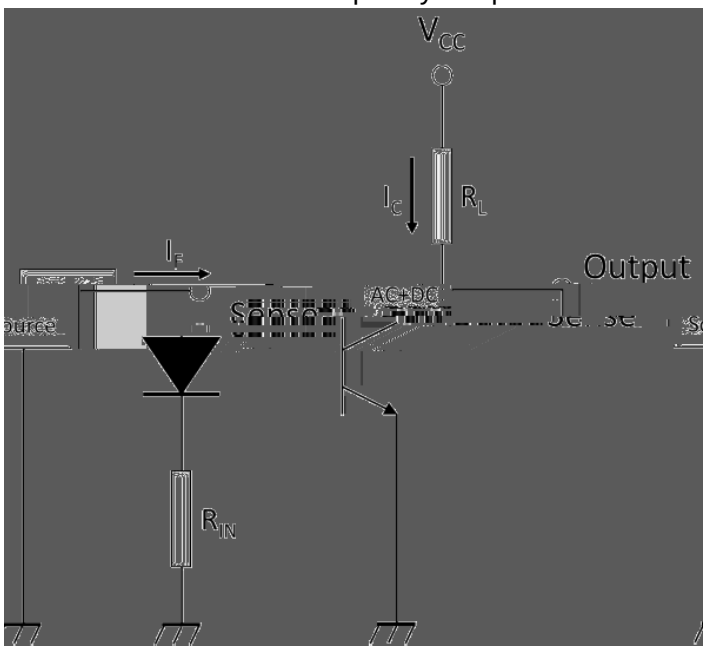
Test Circuits of Response Time



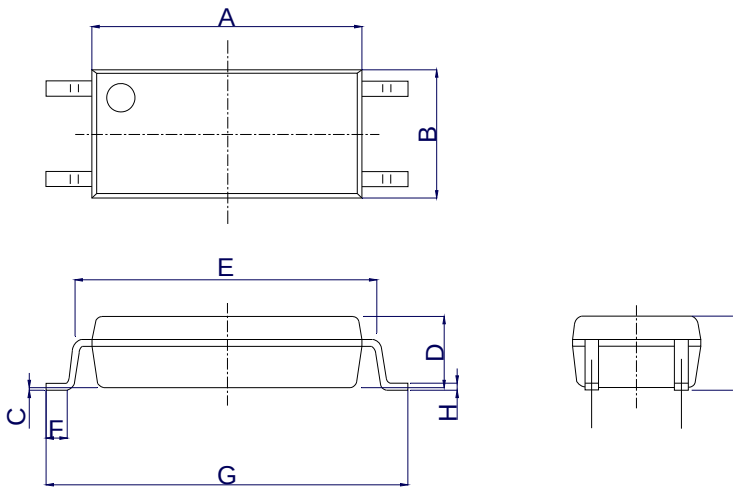
Curves of Response Time



Test Circuits of Frequency Response



Package Dimension (Unit: mm)



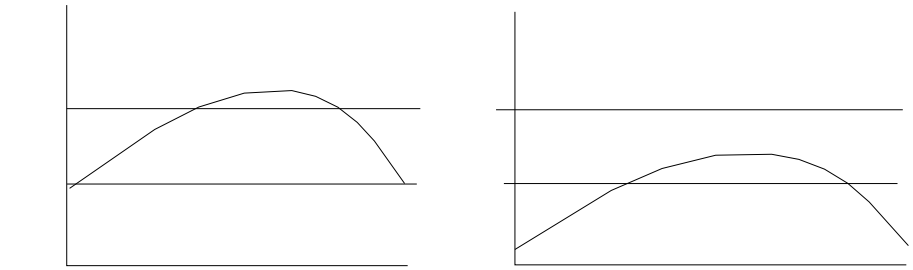
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	7.40		7.80	0.291		0.307
B	3.40		3.80	0.134		0.150
C	0.00		0.20	0.000		0.008
D	1.80		2.20	0.071		0.087
E	8.10		8.70	0.319		0.343
F	0.40		1.00	0.016		0.039
G	9.90		10.50	0.390		0.413
H	0.10		0.30	0.004		0.012
I	1.80		2.40	0.071		0.094
J	0.25		0.55	0.010		0.022
K						

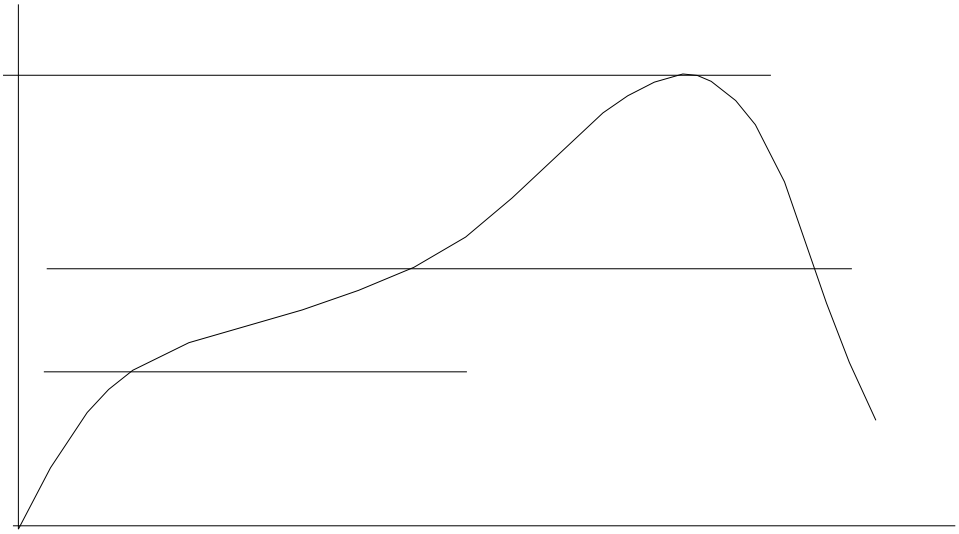
CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option None

Ref.	Dimensions						
	Millimeters			Inches			
	Min.	Typ.	Max.	Min.	Typ.	Max.	
D0		1.55	1.60		0.061	0.063	0
P0	3.90	4.00	4.10	0.154	0	0.161	
P1	7.90		8.10	0.311		0.319	
P2	1.90		2.10	0.075		0.083	
E	1.65	1.75	1.85	0.065	2. @0	0.073900	
F	7.40		7.60	0.291		0.299	
T	0.35		0.45	0.014		0.018	
W	15.80		16.20	0.622		0.638	

REFLOW INFORMATION





Note:

1. Reflow soldering is recommended at the temperatures and times shown, no more than three times.

2. Avoid direct contact between the epoxy body and any tools or surfaces exceeding its maximum storage temperature.

3. Application of pressure on the epoxy body is prohibited at elevated temperatures. In specific scenarios, any applied force must not exceed 2.5N.

4. Ensure the component has cooled to ambient temperature before proceeding with any subsequent manufacturing steps.

5. The component has a shelf life of one year when stored under standard conditions.

6. Recommend storage Temp.: 0~40°C;

Recommend storage humidity: <60%;

MSL level: MSL 1

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