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 110°C
RoHS & REACH Compliance
HBM: H3A ; MM: M4; CDM:C3
CQC approved File ref: CQC26001515368
VDE approved
UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

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

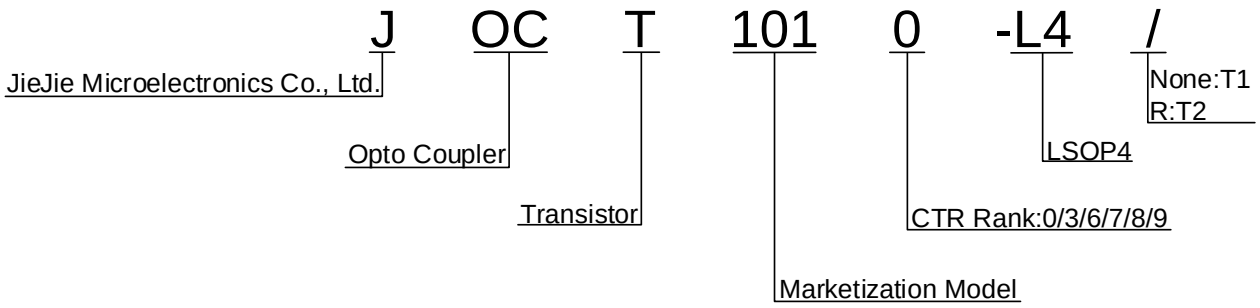
NOTE1: 100μs pulse, 100Hz frequency

NOTE2: AC for 1minute, R.H.=40~60%

ELECTRICAL CHARACTERISTICS (Temperature=25°C)

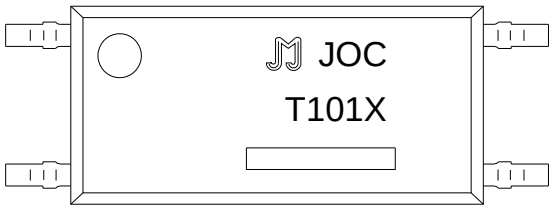
Input	Forward Voltage	V_F	I_F=10mA	-	1.2	1.5	V
	Reverse Current	I_R	V_R=6V	-	-	1	μA

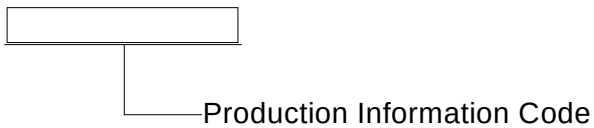
ORDERING INFORMATION



Packing Quantity			
Option	**Quantity**	**Quantity – Inner box**	**Quantity –Outer box**
LSOP4	3000 Units/Reel	2 Reels/Inner box	5 Inner box/Outer box =30k Units

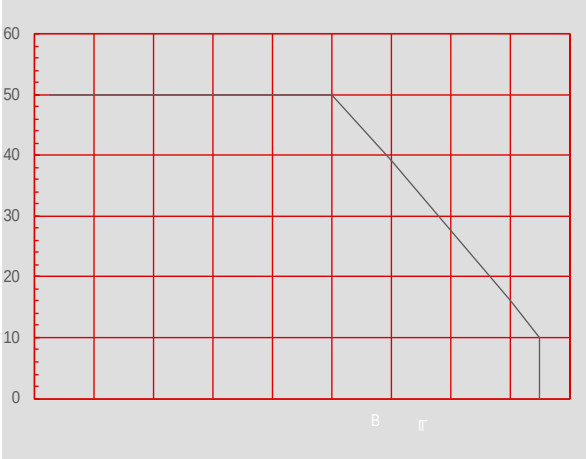
MARKING





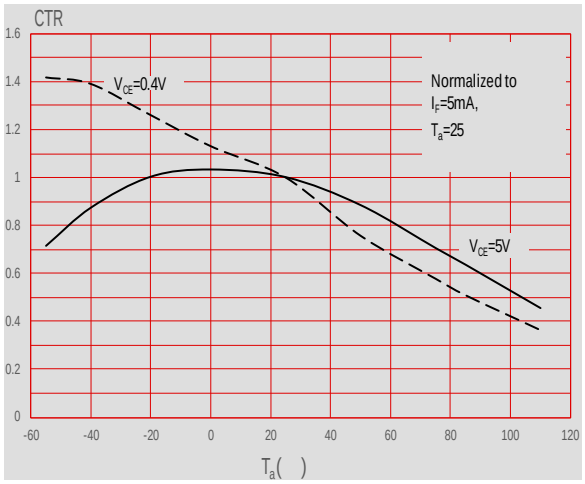
Characteristics Curves

Max. Allowable LED Forward Current vs. Ambient Temperature

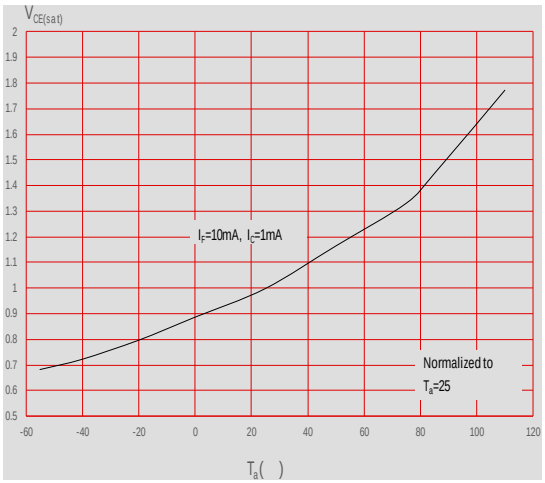


Collector Power Dissiption vs. Ambient Temperature

Normalized Current Transfer Ratio vs. Ambient Temperature

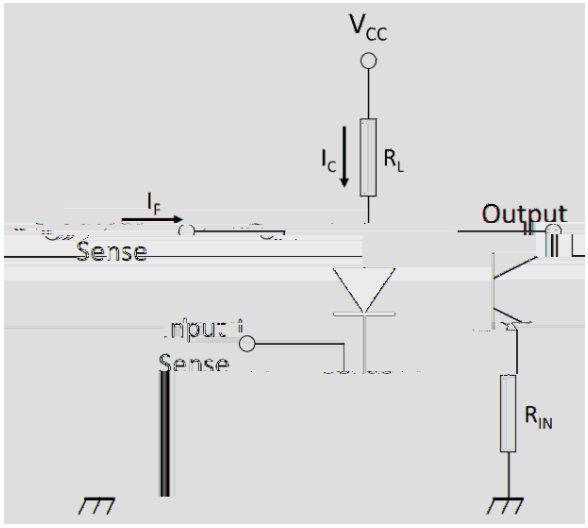


Normalized Collector-emitter Saturation Voltage vs. Ambient Temperature

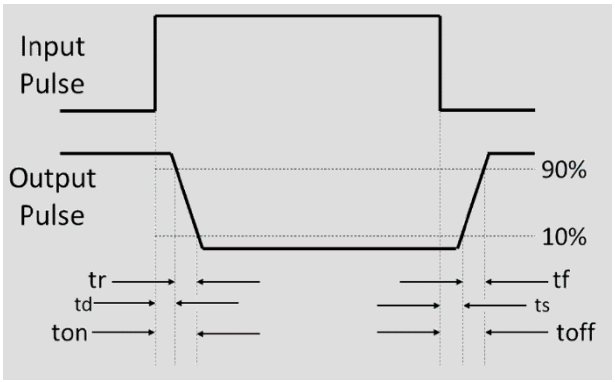


Test Circuits

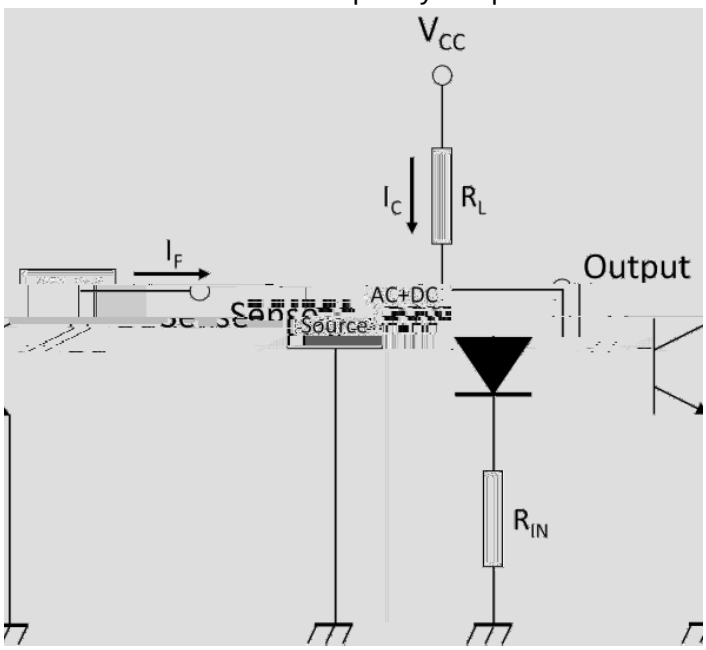
Test Circuits of Response Time



Curves of Response Time



Test Circuits of Frequency Response

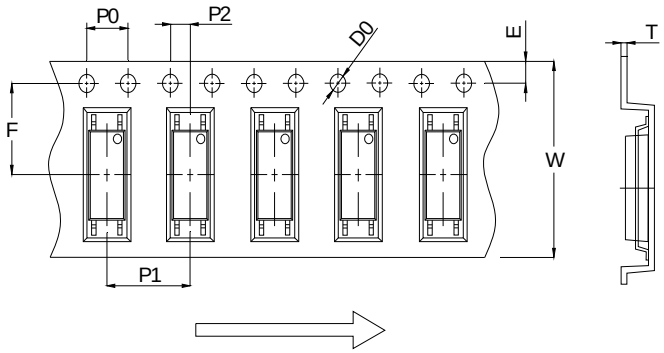


Package Dimension (Unit: mm)

Ref.	Dimensions								
	Millimeters			Inches					
	Min.	Typ.	Max.	Min.	Typ.	Max.			
A	7.40								
B	3.4	§			2	ב	0T	80	/ 40
C									
D									
E									
F	0.40			0.016					
G	8								
H									
I	1.80			0.071					
J			0.55	0.010					
K									

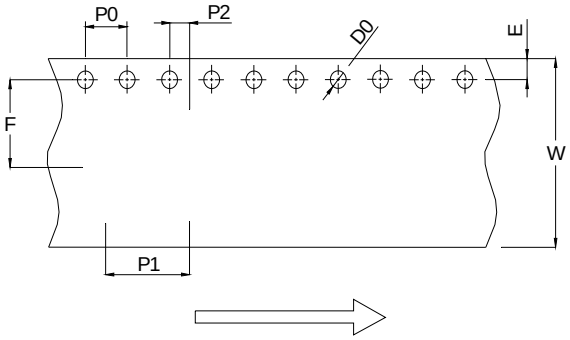
CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option None



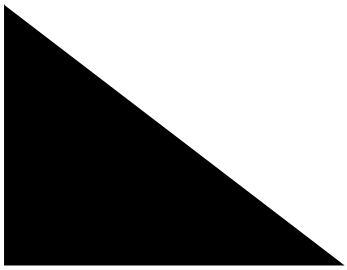
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0	1.50	1.55	1.60	0.059	0.061	0.063
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	7.90	8.00	8.10	0.311	0.315	0.319
P2	1.90	2.00	2.10	0.075	0.079	0.083
E	1.65	1.75	1.85	0.065	0.069	0.073
F	7.40	7.50	7.60	0.291	0.295	0.299
T	0.35	0.40	0.45	0.014	0.016	0.018
W	15.80	16.00	16.20	0.622	0.630	0.638

Option R



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0	1.50	1.55	1.60	0.059	0.061	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	7.40	7.50	7.60	0.291	0.295	0.299
T	0.35	0.40	0.45	0.014	0.016	0.018
W	15.80	16.00	16.20	0.622	0.630	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 be