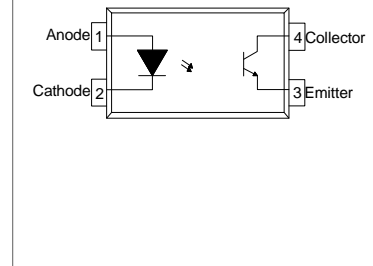




The products are transistor opto-couplers in a plastic LSOP4 package. The device combines an AlGaAs infrared emitting diode as the emitter which is optically coupled to a silicon planar phototransistor detector. With the robust coplanar double mold structure, the device provides the most stable isolation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



- High isolation 5000 VRMS
- DC input with transistor output
- Operating temperature range -40°C to 110°C
- RoHS & REACH Compliance
- HBM: H3A ; MM: M4; CDM:C3
- CQC approved
- VDE approved
- UL approved



(Temperature=25°C)

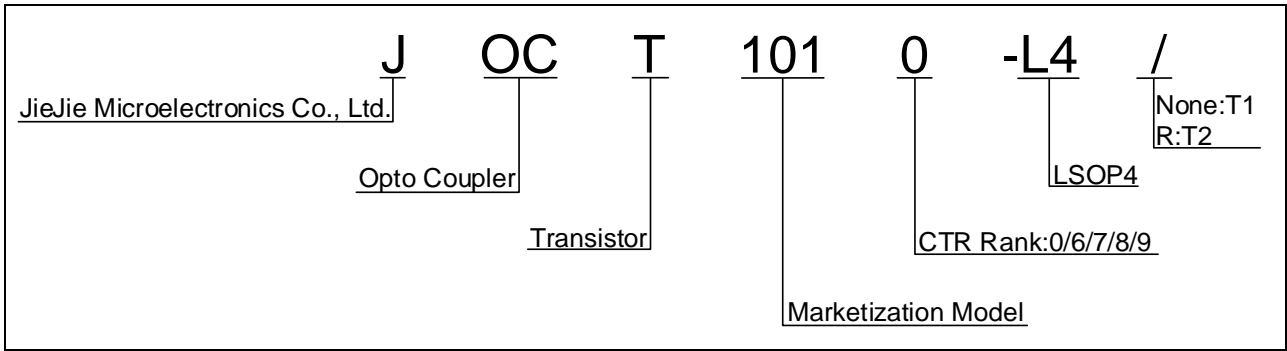
Parameter		Symbol	Value	Unit
Input	Forward Current	$I_F$	50	mA
	Peak Forward Current	$I_{FP}$	1	A
	Reverse Voltage	$V_R$	6	V
	Power Dissipation	$P_D$	75	mW
Output	Collector-emitter Voltage	$V_{CEO}$	80	V
	Emitter-collector Voltage	$V_{ECO}$	7	V
	Collector Current	$I_C$	50	mA
	Power Dissipation	$P_C$	150	mW
Total Power Dissipation		$P_{tot}$	225	mW
Isolation Voltage		$V_{iso}$	5000	Vrms
Operating Temperature		$T_{opr}$	-40~+110	
Junction Temperature		$T_j$	125	

Storage Temperature	T <sub>stg</sub>	-55~+125	
Soldering Temperature	T <sub>sol</sub>	260	

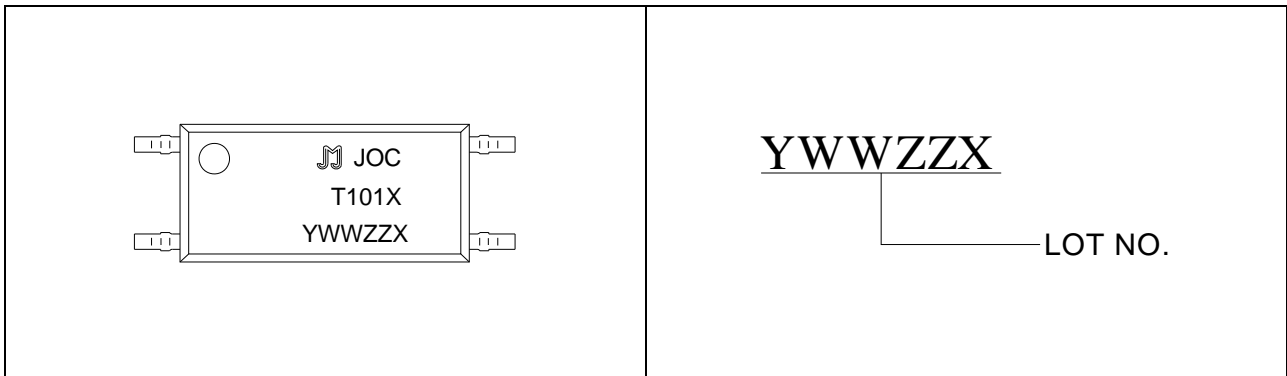
100μs pulse, 100Hz frequency  
 AC for 1minute, R.H.=40~60%

(Temperature=25°C)

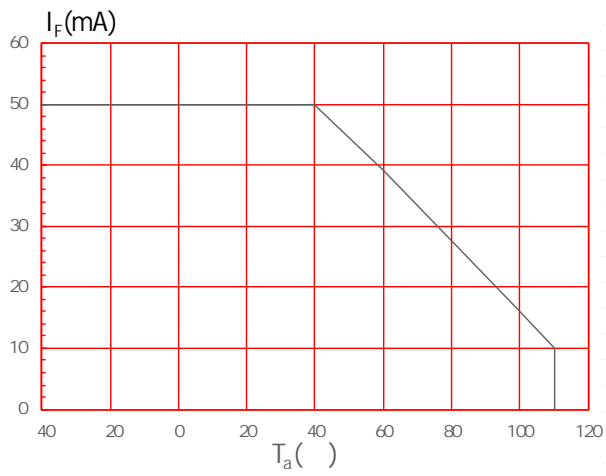
Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	-	1.2	1.5	V
	Reverse Current	I <sub>R</sub>	V <sub>R</sub> =6V	-	-	1	μA



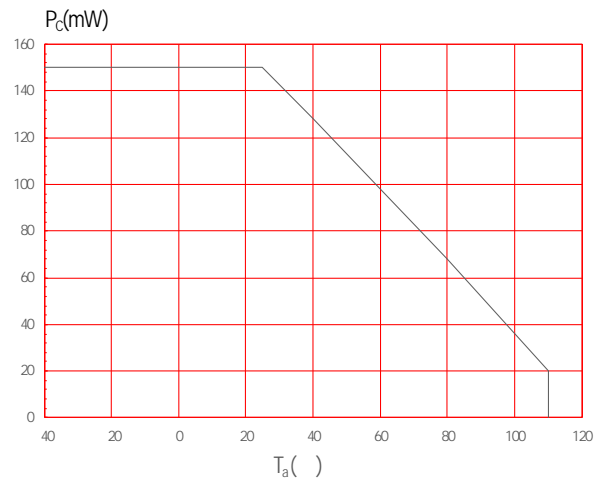
None/R	3000 Units/Reel



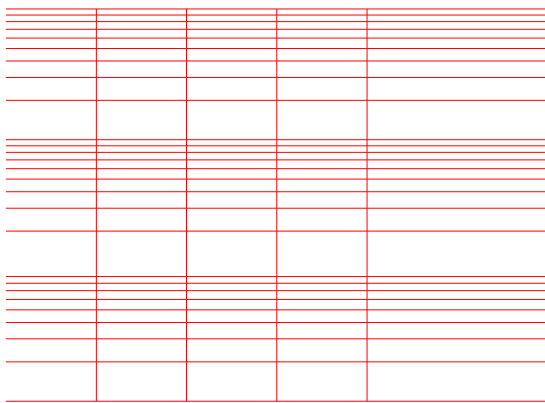
**FIG.1:** Max. Allowable LED Forward Current vs. Ambient Temperature



**FIG.2:** Collector Power Dissipation vs. Ambient Temperature



**FIG.3:** Forward Current vs. Forward Voltage



**FIG.4:** Normalized Collector Dark Current vs. Ambient Temperature



FIG.11: Test Circuits of Response Time

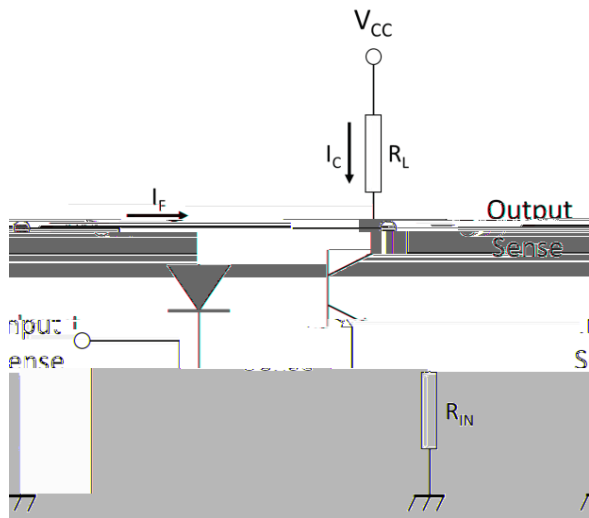


FIG.12: Curves of Response Time

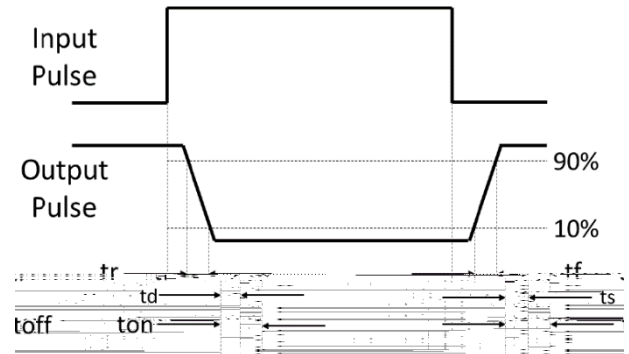
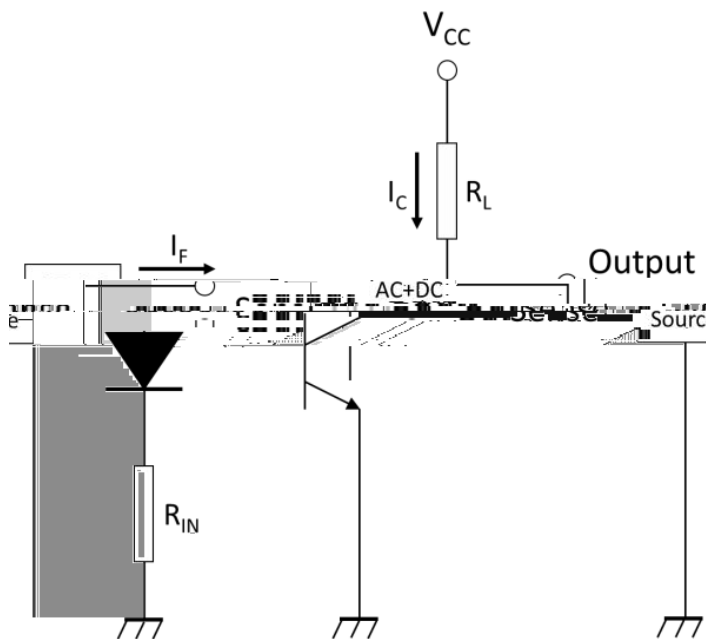
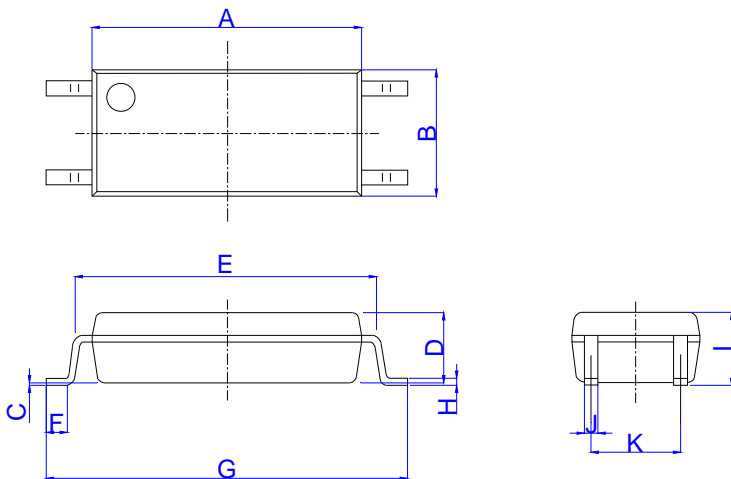
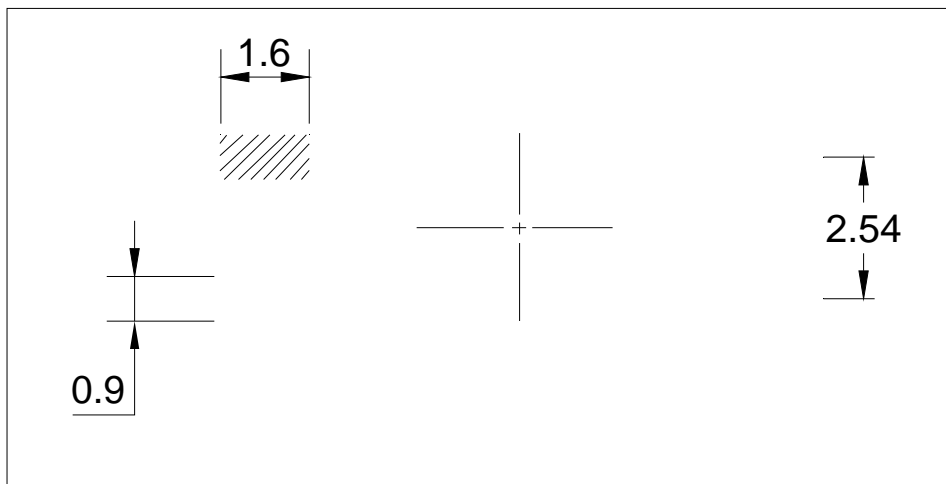


FIG.13: Test Circuits of Frequency Response

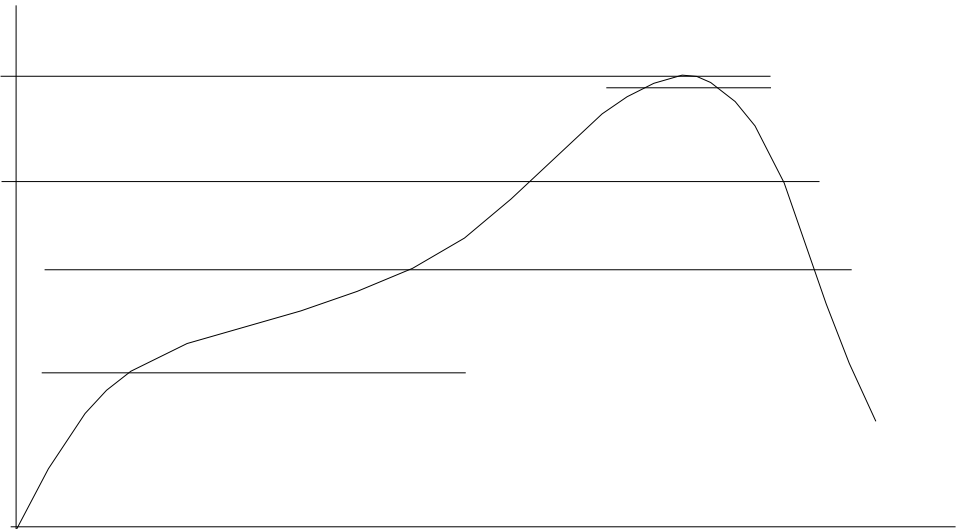
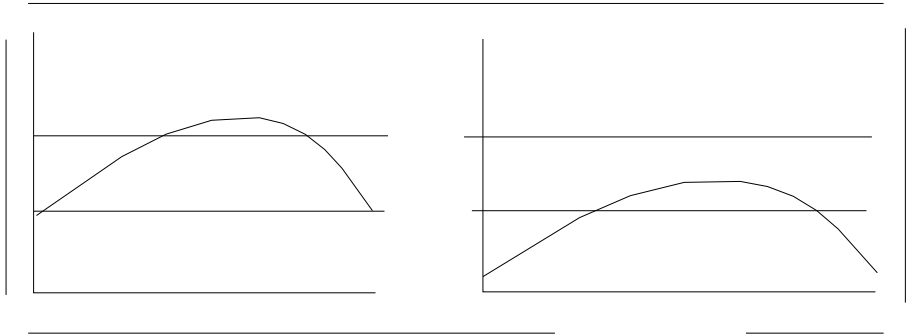




Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	7.40		7.80	0.291		0.307
B	3.40		3.80	0.134		0.150
C	0.00		0.20	0.000		0.008
D	1.80		2.20	0.071		0.087
E	8.10		8.70	0.319		0.343
F	0.40		1.00	0.016		0.039
G	9.90		10.50	0.390		0.413
H	0.10		0.30	0.004		0.012
I	1.80		2.40	0.071		0.094
J	0.25		0.55	0.010		0.022
K	2.29		2.79	0.090		0.110







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