JOCT214X-S4 Series

Rev.A.1.0

DESCRIPTION:

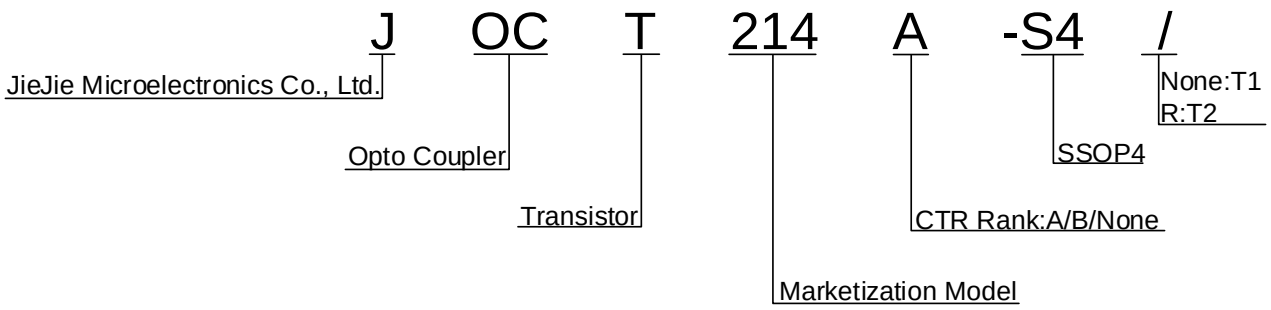
The products are transistor opto-couplers in a SSOP4 package.
The device is a photoelectric coupler composed of light-emitting diode and phototransistor. The products are widely used in switching power supply, intelligent meter, in γ ᵐ ᴰ l ˳ ᴰ M γ ᵴ γ ᵐ ᴰ 0

ELECTRICAL CHARACTERISTICS (Temperature=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	I_F=±10mA	-	1.2	1.5	V

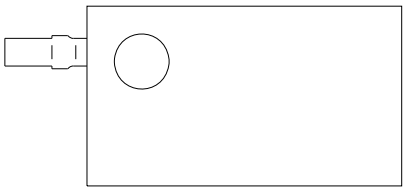
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ORDERING INFORMATION



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

MARKING



Characteristics Curves

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

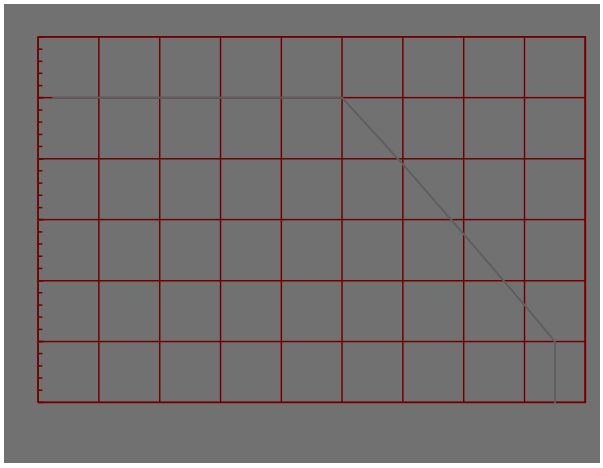


FIG.2: Collector Power Dissiption vs. Ambient Temperature

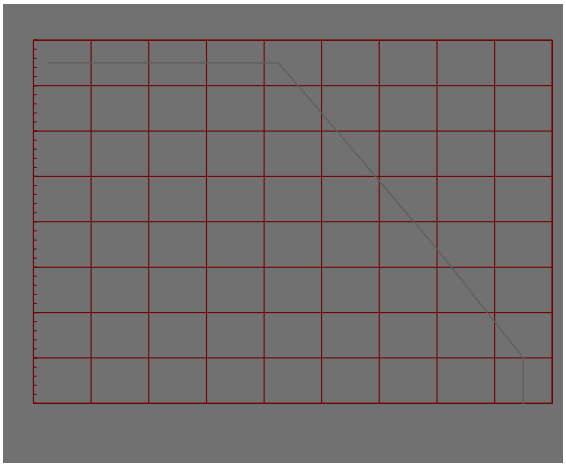


FIG.3: Forward Current vs. Forward Voltage

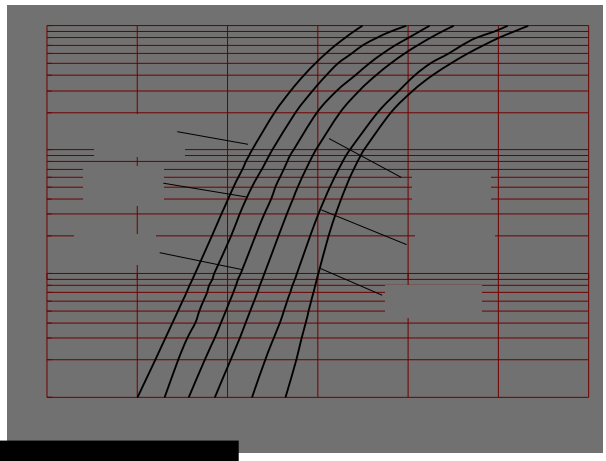
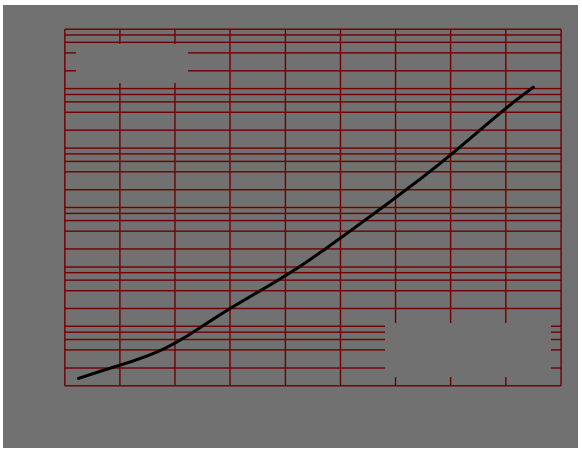


FIG.4: Normalized Collector Dark Current vs. Ambient Temperature



Current vs. Collector-emitter

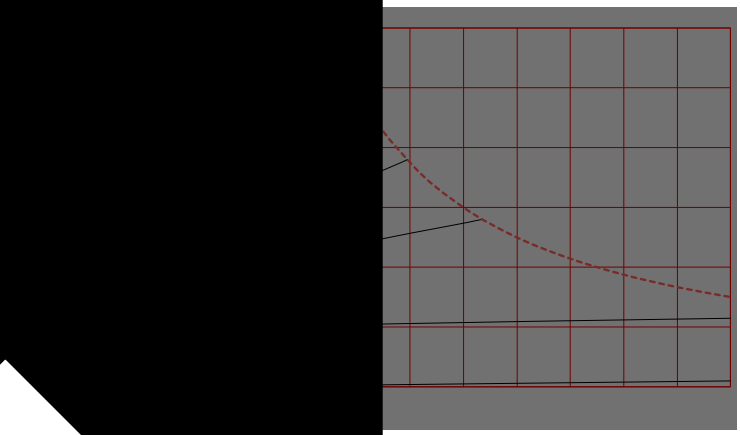


FIG.6: Normalized Current Transfer Ratio vs. Forward Current

FIG.7: Normalized Current Transfer Ratio vs. Ambient Temperature

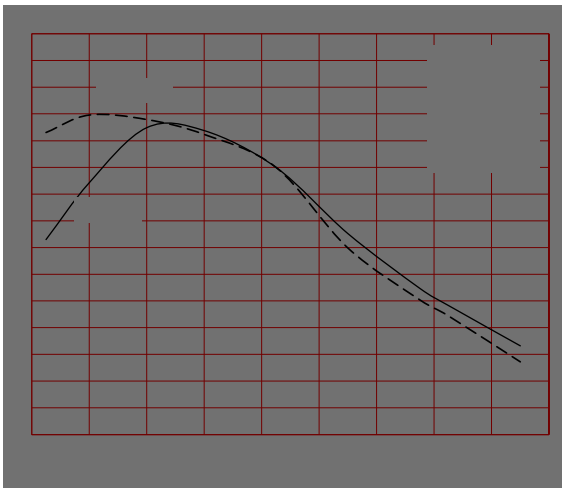


FIG.8: Normalized Collector-emitter Saturation Voltage vs. Ambient Temperature

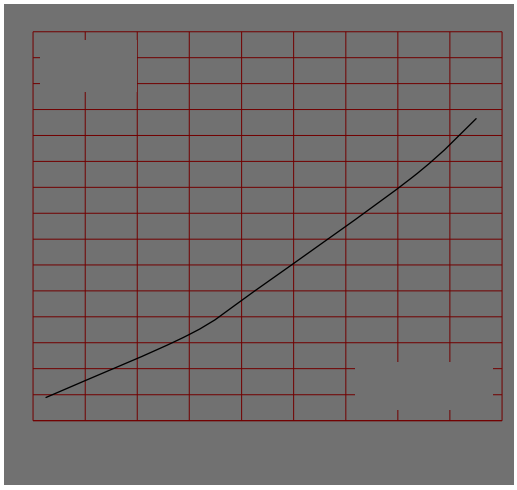


FIG.9: Response Time vs. Load Resistance

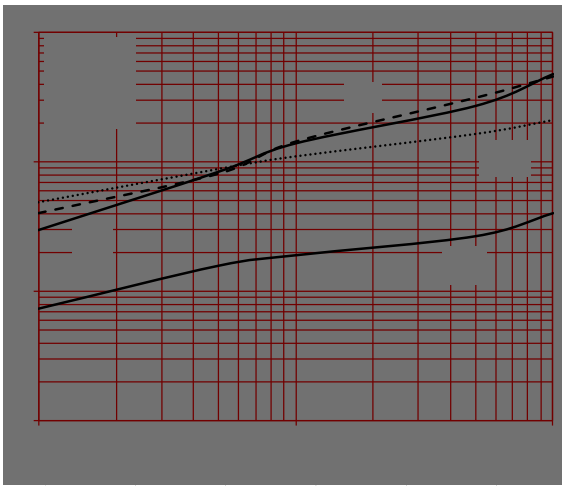
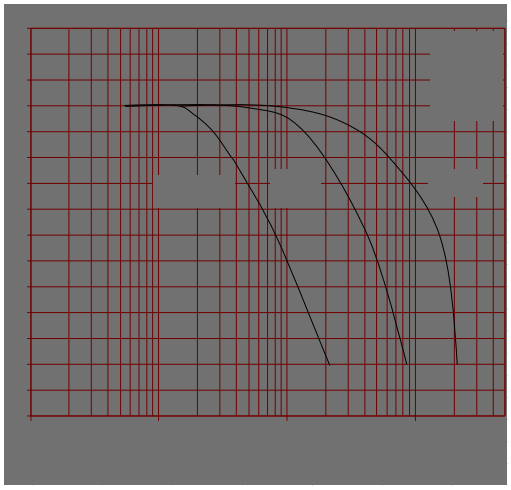


FIG.10: Frequency Response



Test Circuits

FIG.11: Test Circuits of Response Time

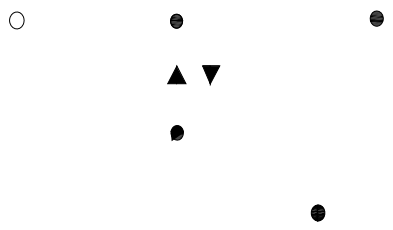
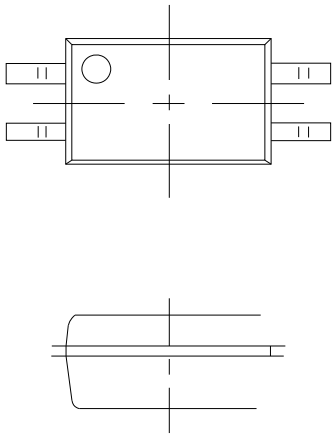


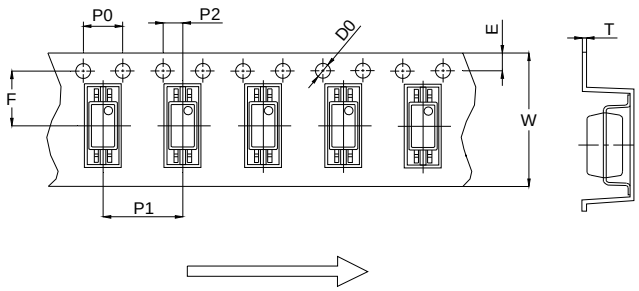
FIG.12: Curves of Response Time

Package Dimension (Unit: mm)



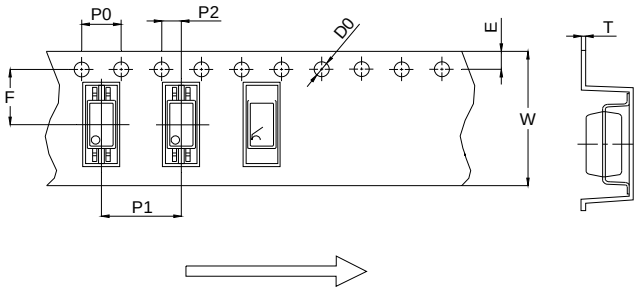
CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option None



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.60		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	5.40	5.50	5.60	0.213	0.217	0.220
T	0.20	0.25	0.30	0.008	0.010	0.012
W	11.90	12.10	12.30	0.469	0.476	0.484

Option R



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.60		0.059	0.063
P0	3.90		4.10	0.154		0.161
P1	7.90		8.10	0.311		0.319
P2	1.90		2.10	0.075		0.083
E	1.65		1.85	0.065		0.073
F	5.40		5.60	0.213		0.220
T	0.20		0.30	0.008		0.012
W	11.90		12.30	0.469		0.484

JOCT214X

Note:

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