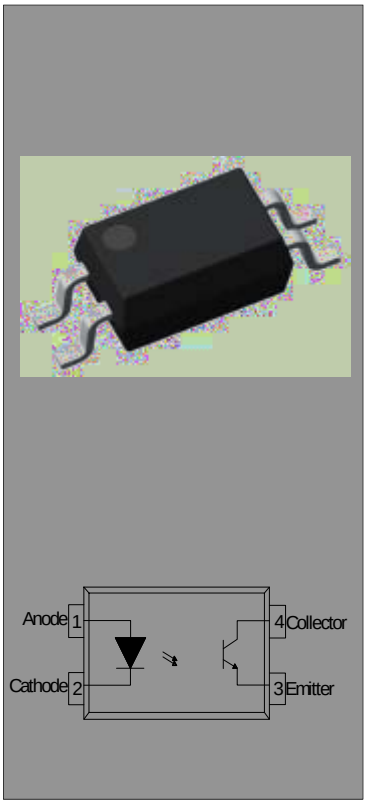
DESCRIPTION:

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, industrial control, measuring instruments, office equipment such as copiers, household appliances: such as air conditioners, fans, water heaters,etc.



MAIN FEATURES

High isolation 3750 VRMS
Operating temperature range -40°C to 110°C
RoHS & REACH Compliance
HBM: H3A; MM: M4; CDM:C3
CQC approved
VDE approved
UL approved

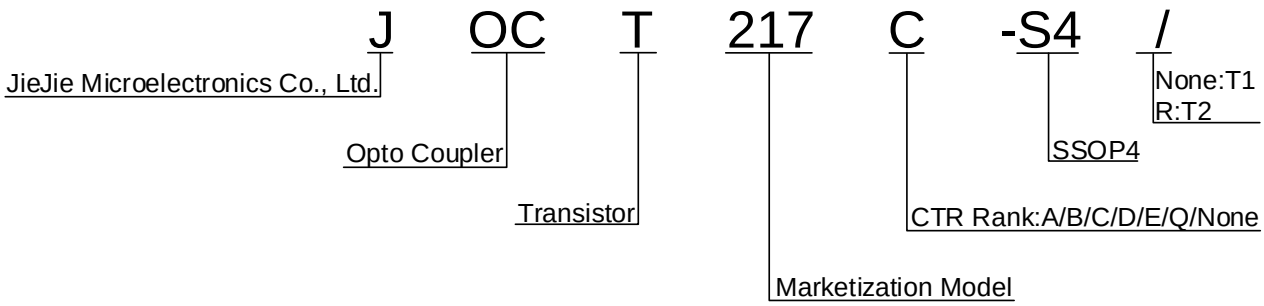
ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Input	Forward Current	I_F	50	mA
	Peak Forward Current	I_{FP}	1[7]	A
	Reverse Voltage	V_R	6	V
	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}	3750[8]	Vrms
Operating Temperature		T_{opr}	-40~+110	
Junction Temperature		T_j	125	

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

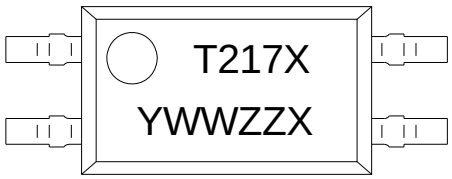
NOTE1 ° •Â‚\% #"Edg„H$b¨!‰ &øIqì '1Ç '1Ç p

ORDERING INFORMATION



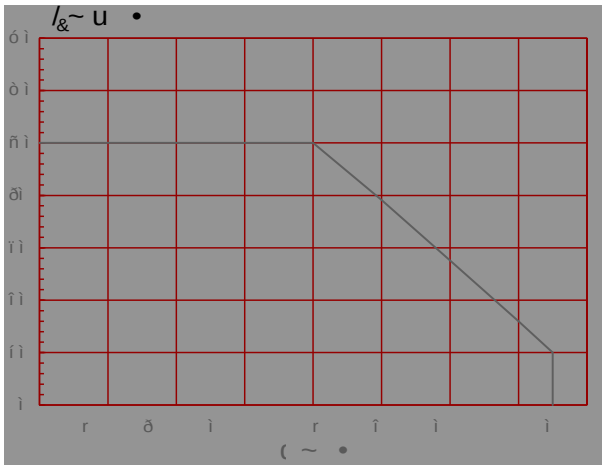
Packing Quantity	
Option	**Quantity**
E}v lZ	ïìììhv]š•lZ o

MARKING

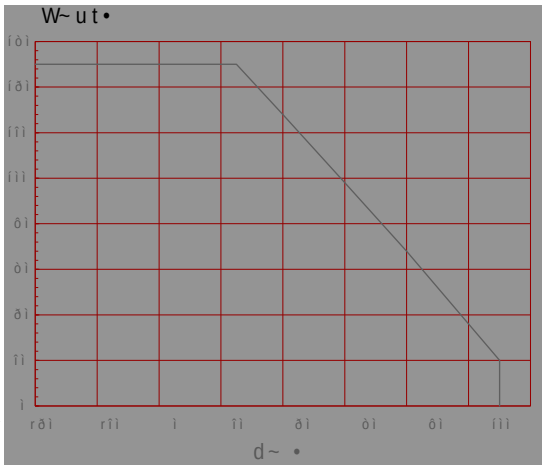


Characteristics Curves

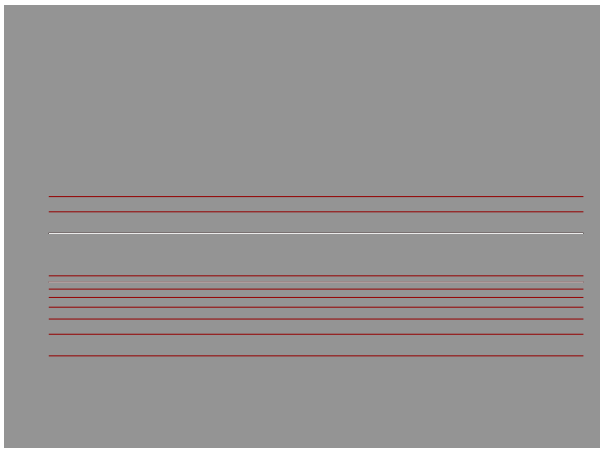
Max. Allowable LED Forward Current vs. Ambient Temperature



Collector Power Dissiption vs. Ambient Temperature

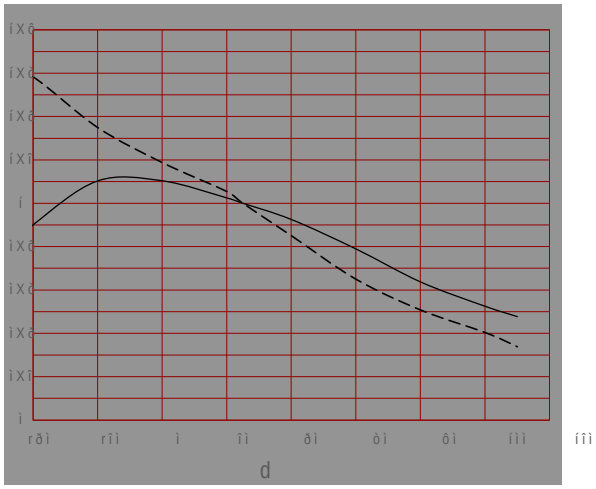


Forward Current vs. Forward Voltage



Normalized Collector Dark Current vs. Ambient Temperature

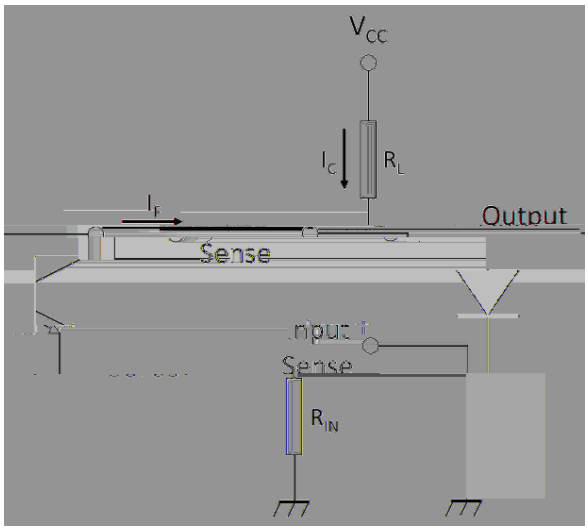
Normalized Current Transfer Ratio vs. Ambient Temperature



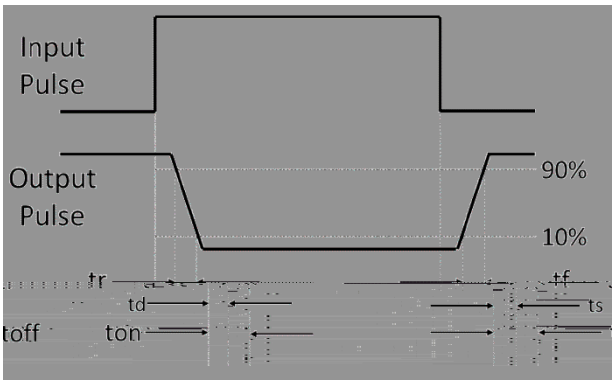
Normalized Collector-emitter Saturation Voltage vs. Ambient Temperature

Test Circuits

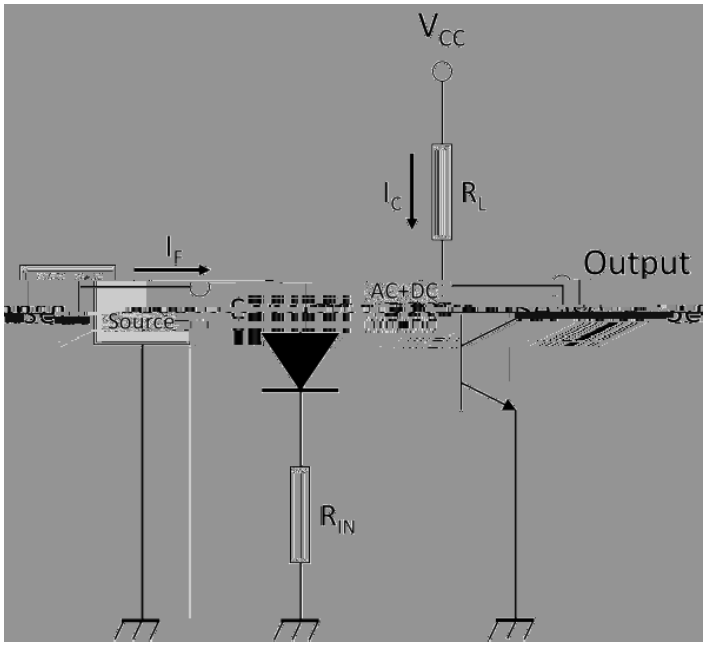
Test Circuits of Response Time



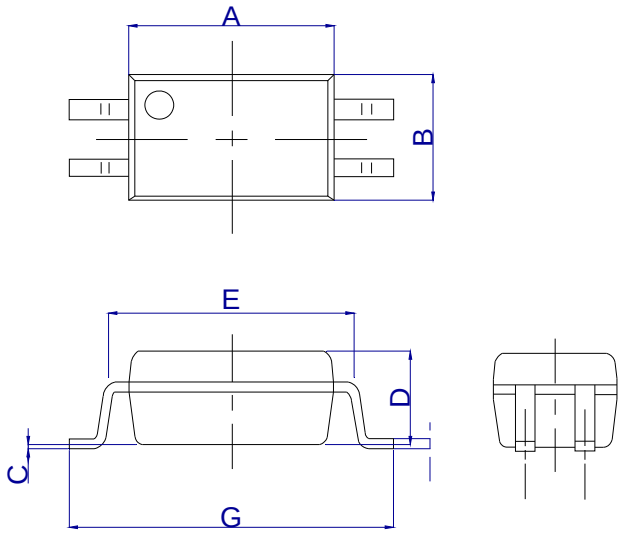
Curves of Response Time



Test Circuits of Frequency Response

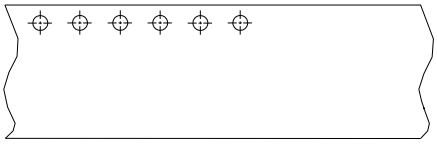


Package Dimension (Unit: mm)

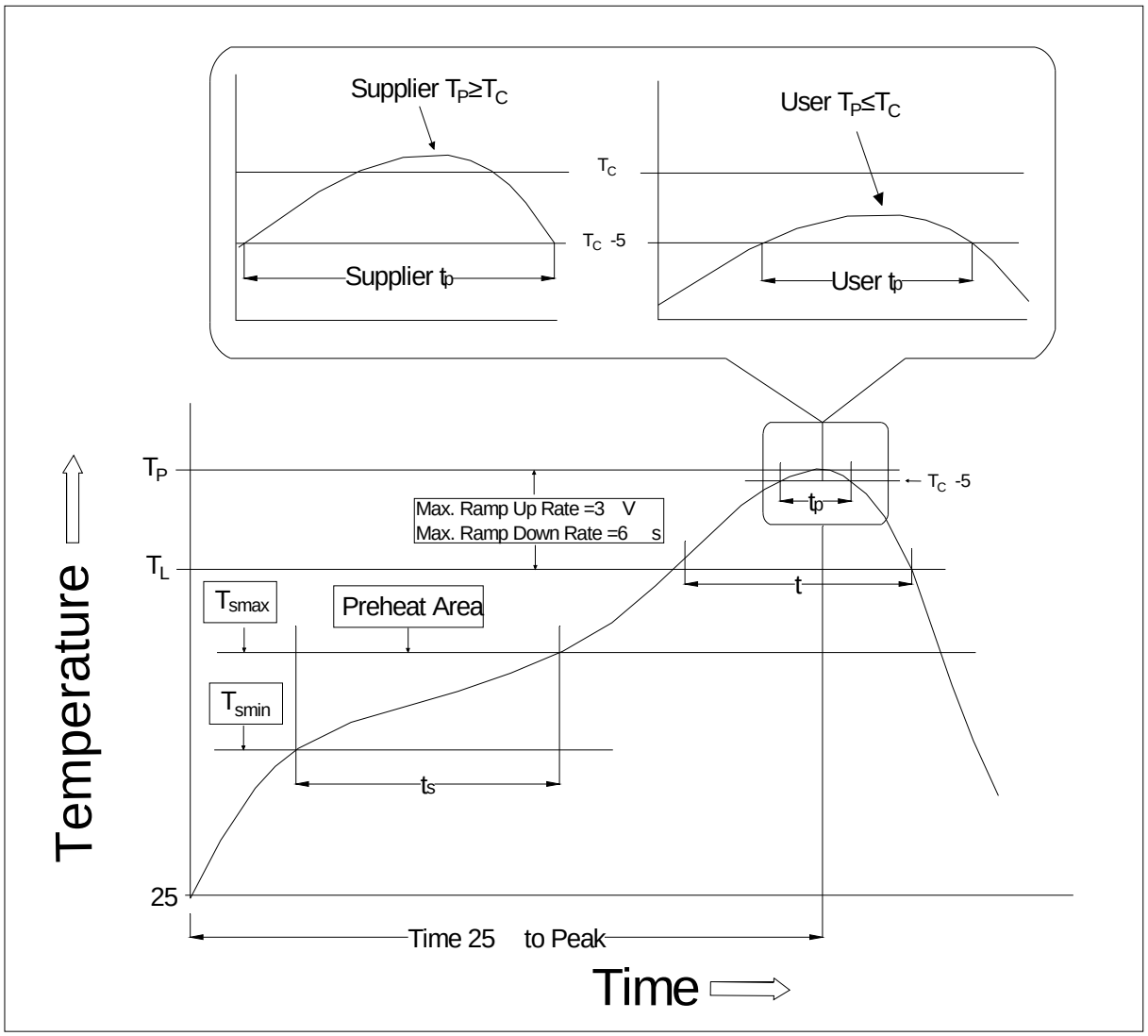


CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option None/R



REFLOW INFORMATION



Temperature Min. (Tsmin)	100	150
Temperature Max. (Tsmax)	150	200
Time (ts) from (Tsmin to Tsmax)	60-120 seconds	60-120 seconds
Ramp-up Rate (tL to tP)	3 /second max.	3 /second max.
Liquidus Temperature (TL)	183	217
Time (tL) Maintained Above (TL)	60-150 seconds	60-150 seconds
Peak Body Package Temperature	235 +0 /-5	260 +0 /-5
Time (tP) within 5 of 260	20 seconds	30 seconds
Ramp-down Rate (TP to TL)	6 /second max.	6 /second max.
Time 25 to Peak Temperature	6 minutes max.	8 minutes max.

Note:

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

2. Avoid direct contact be