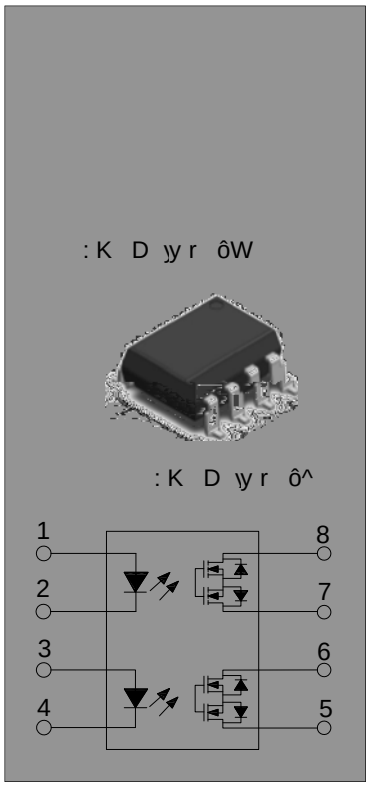
JOCMEXXC-D8P/S Series

Rev.A.1.0

DESCRIPTION:

The products are 8-pin optical relays. The device consists of an AlGaAs infrared emitting diode input stage optically coupled to a high-voltage output detector circuit in a plastic DIP8 package with different lead forming options. The detector consists of a high-speed photovoltaic diode array and driver circuitry. The products are widely used in isolation in high-speed inspection machines, telephones equipment and computers.



MAIN FEATURES

High isolation 5000 Vrms
Operating temperature range -40°C to 110°C
REACH & RoHS compliance
HBM: H3A; MM: M4; CDM: C3
CQC approved
VDE approved
UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter			Symbol	Value	Unit
Input	Forward Current		I_F	50	mA
	Peak Forward Current		I_{FP}	1[7]	A
	Reverse Voltage		V_R	6	V
	Input Power Dissipation		P_D	75	mW
Output	Load Voltage	JOCME35C	V_L	60	V
		JOCME74C		400	
	Continuous load current	JOCME35C	I_L	0.18	A
		JOCME74C		0.1	
	Output Power Dissipation		P_O	800	mW
Total Power Dissipation			P_{tot}	875	mW
Isolation Voltage			V_{iso}	5000[8]	Vrms
Operating Temperature			T_{opr}	-40~110	
Junction Temperature			T_j	125	
Storage Temperature			T_{stg}	-40~125	

Soldering Temperature	T_{sol}	260	

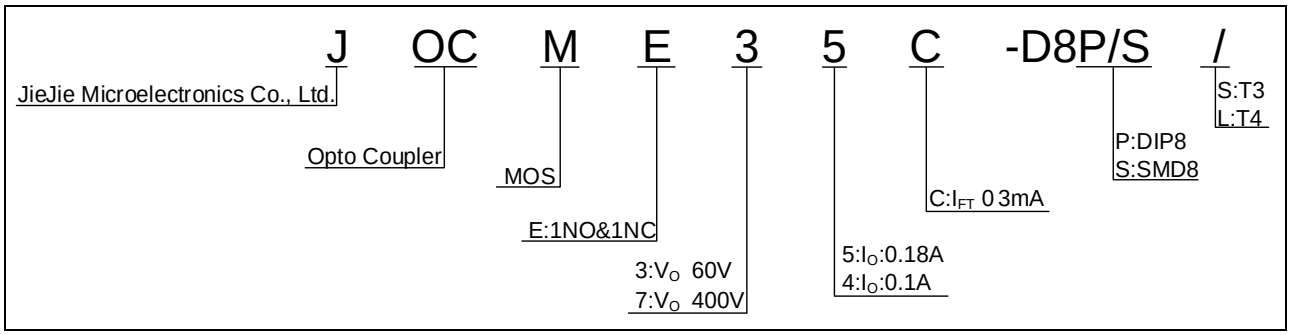
NOTE1 í ì ì µo í ì Ù, Ì (µ v ·
NOTE2 (} í u] v µ U Z X , X A ðì òì 9

ELECTRICAL CHARACTERISTICS (Temperature=25°C)

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

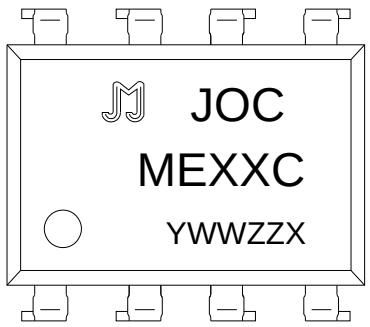
Input

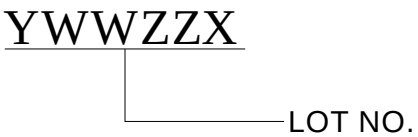
ORDERING INFORMATION



Packing Quantity	
Option	**Quantity**
/ W	æ ì h v] l d µ
^ D	í î ì ì h v] l Z o

MARKING





Characteristics Curves

FIG.1: LED Dropout Voltage vs. Ambient Temperature

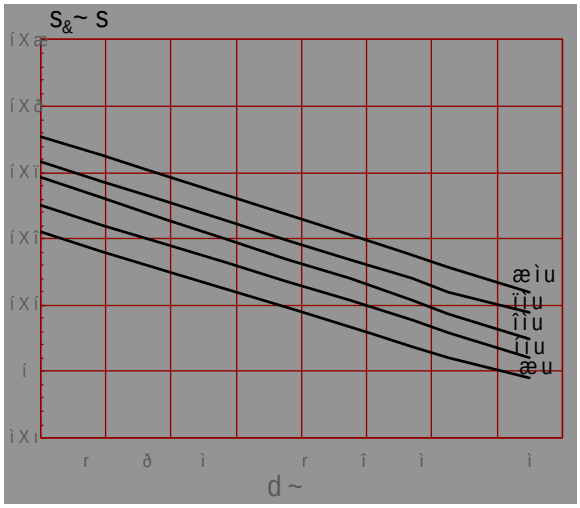


FIG.2: Output Current vs. Output Voltage

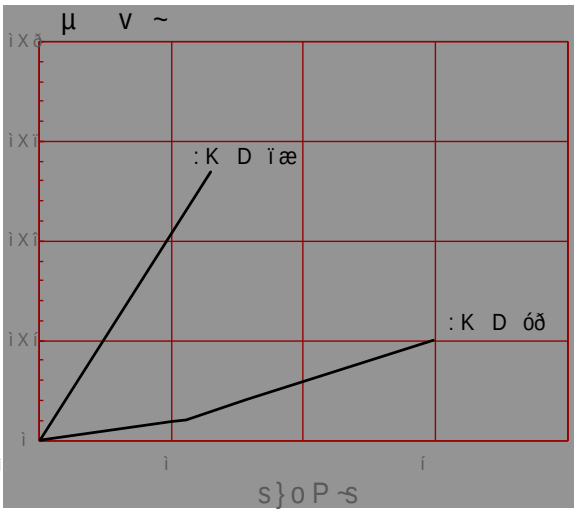


FIG.3: On Resistance vs. Ambient Temperature

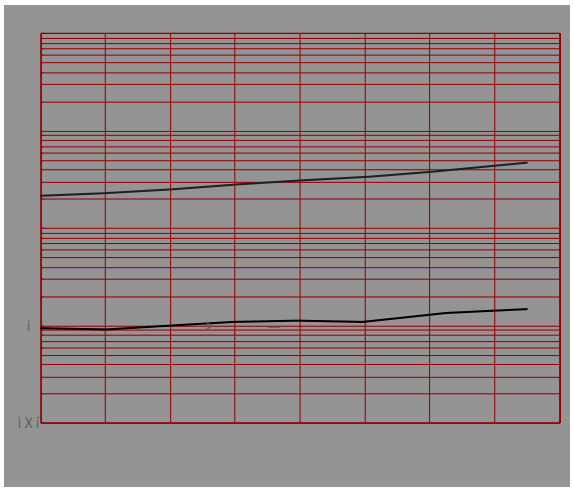


FIG.4: Load Current vs. Ambient Temperature

FIG.7: Turn On Time vs. Ambient Temperature

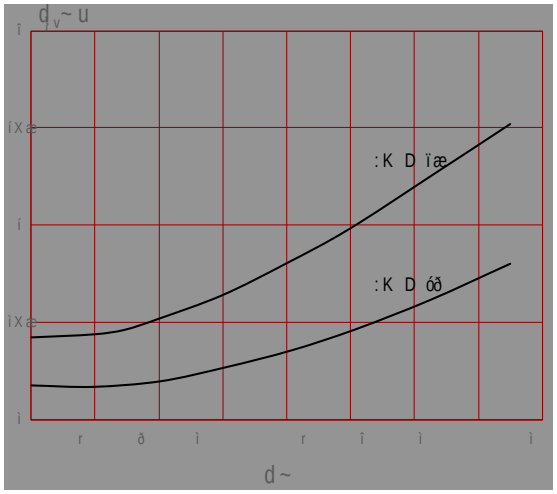
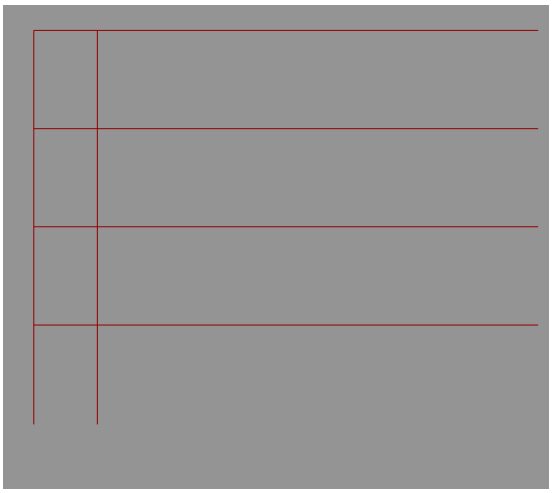
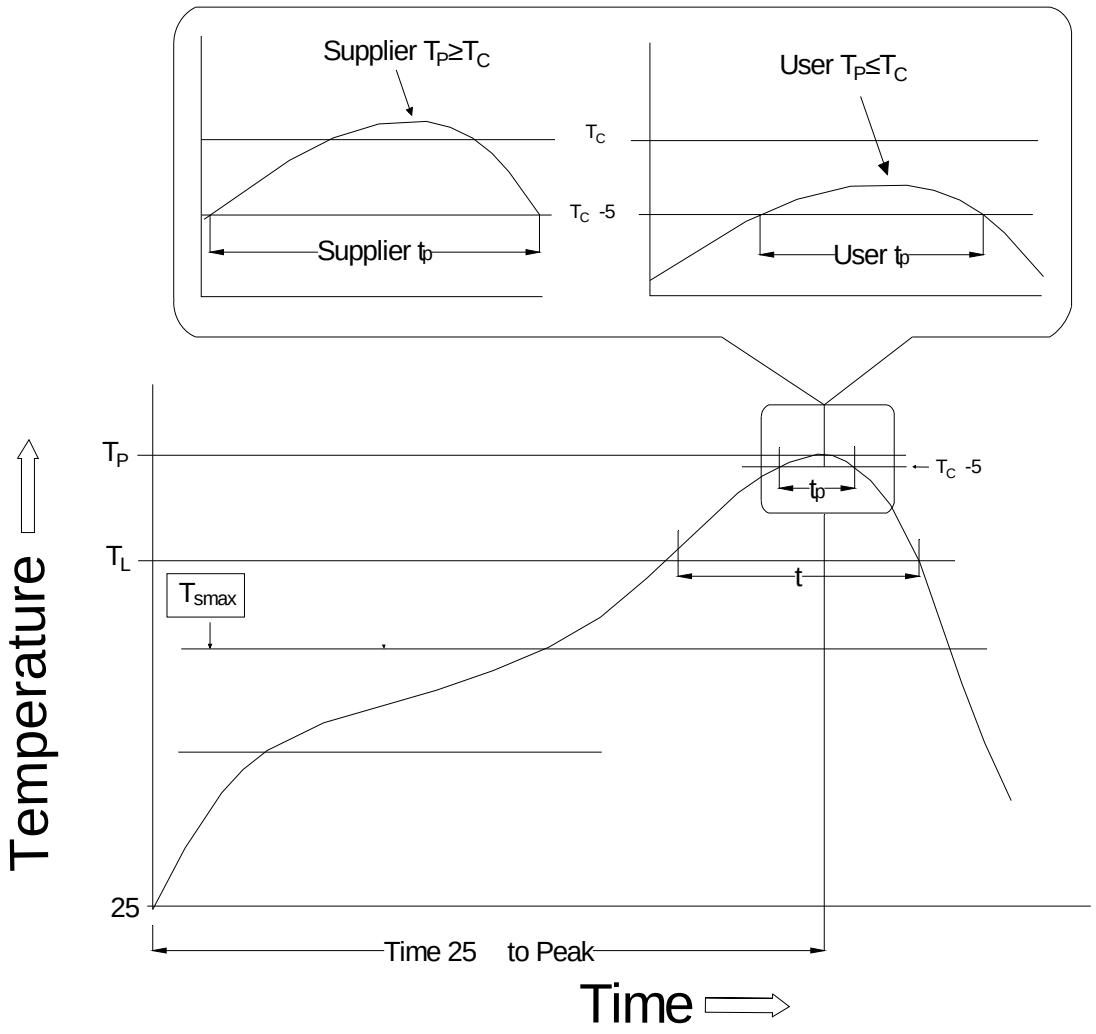


FIG.8: Turn Off Time vs. Ambient Temperature

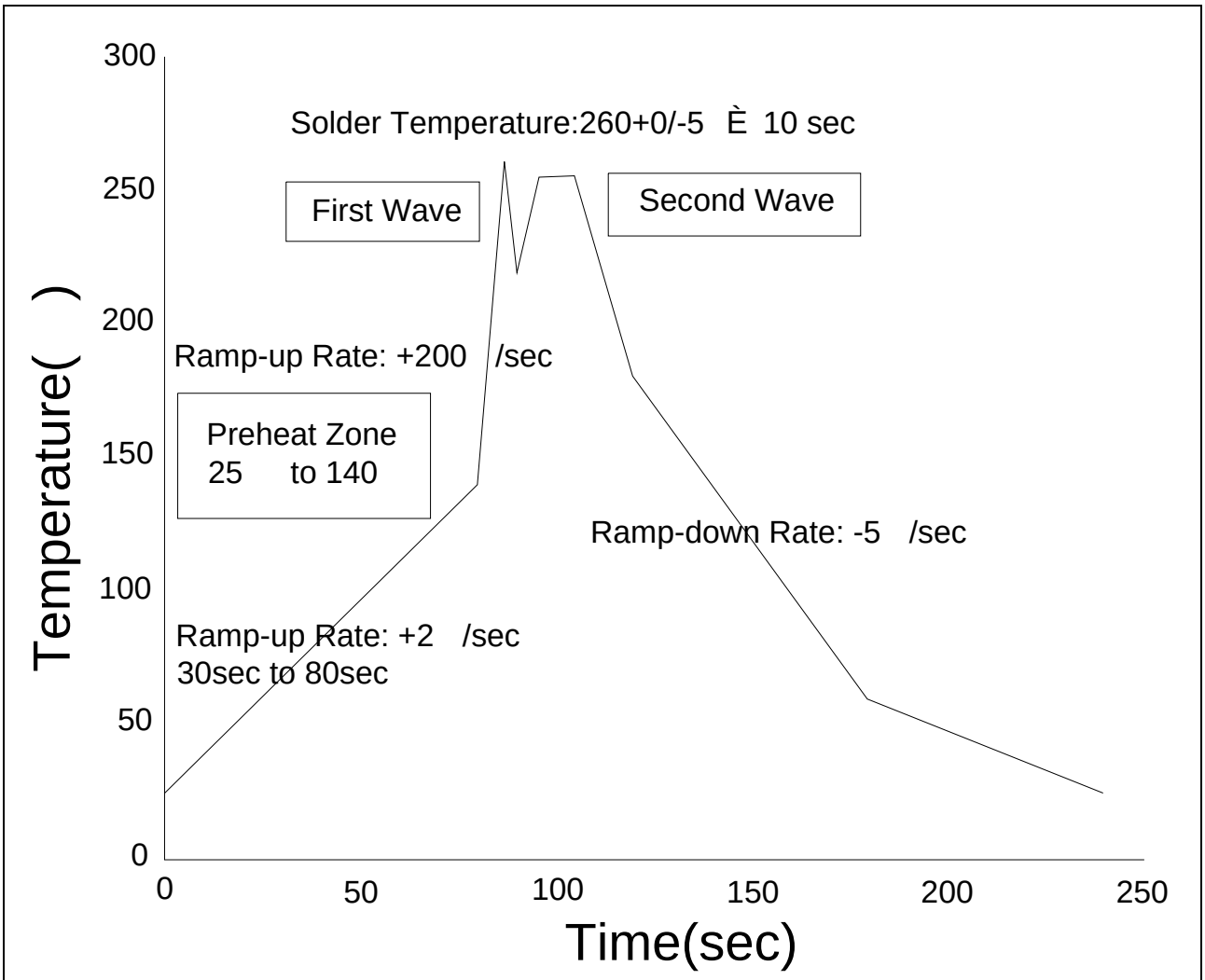


Package Dimension (Unit: mm)

REFLOW INFORMATION



WAVE SOLDERING



HAND SOLDERING BY SOLDERING IRON	
Soldering Temperature	360 f5
Soldering Time	3s max.

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