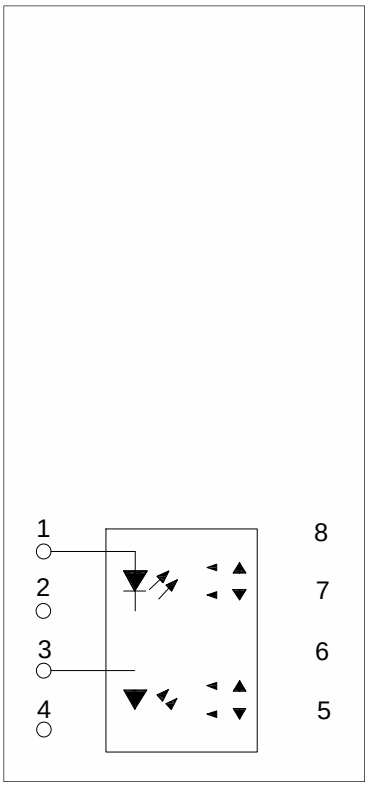
JOCMEXXC-D8P/S Series

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[ŵ]	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	600	mW
Total Power Dissipation			P_{tot}	675	mW
Isolation Voltage			V_{iso}	5000[Ŷ]	Vrms
Operating Temperature			T_{opr}	-40~110	℃
Junction Temperature			T_j	125	℃
Storage Temperature			T_{stg}	-40~125	℃

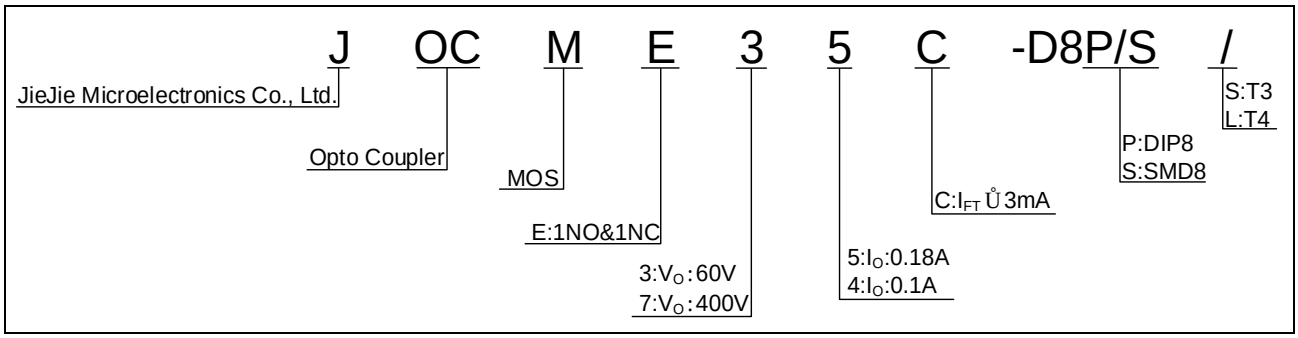
Soldering Temperature	T_{sol}	260	Ņ

NOTE1: 100μs pulse, 100Hz frequency
NOTE2: AC for 1minute, R.H.=40~60%

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
	Reverse Current		I_R	V_R=6V	-	-	1	μA
	Action Current		$I_{F(ON)}$	I_L=$I_{L(MAX)}$	-	-	3	mA
	Action Current		$I_{F(OFF)}$	I_L=$I_{L(MAX)}$	-	0.9	3	mA
	Reset Current		$I_{F(ON)}$	I_L=$I_{L(MAX)}$	0.4	0.8	-	mA
	Reset Current		$I_{F(OFF)}$	I_L=$I_{L(MAX)}$	0.4	-	-	mA
Output	On Resistance	JOCME35C	R_{on}	I_L= $I_{L(MAX)}$.	-	10	15	Ω
		JOCME74C			-	20	30	
	Off State Leakage Current		I_{Leak}	V_L=Max.	-	-	10	μA
	Isolation Resistance		R_{ISO}	DC500V 40~60%R.H.	10^{12}	-	-	Ω
Switching Characteristics	Floating Capacitance		C_{IO}	V=0, f=1M=	mJ0	#	c	Ɒ

ORDERING INFORMATION



Packing Quantity

Option	Quantity
Quantity c ؛ Ä t Ì w Ł o ɱ o Ц	

MARKING

Characteristics Curves

FIG.1: LED Dropout Voltage vs. Ambient Temperature

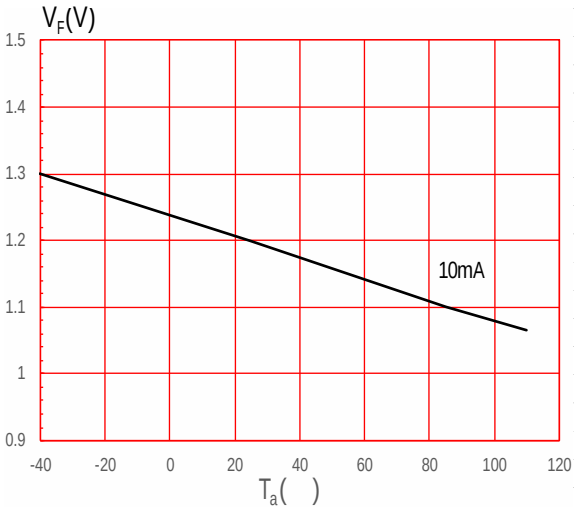


FIG.2: Output Current vs. Output Voltage

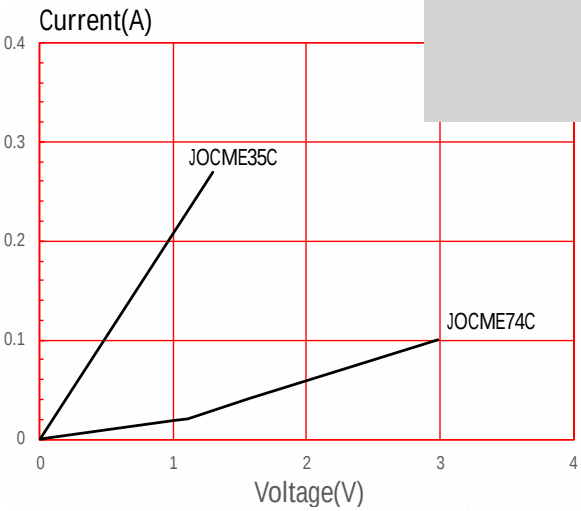


FIG.3: On Resistance vs. Ambient Temperature

FIG.4: Load Current vs. Ambient Temperature

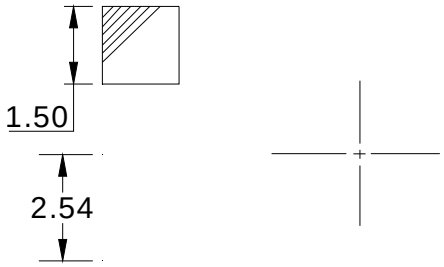
JOCMEXXC

Package Dimension (Unit: mm)

Standard DIP Type:



RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

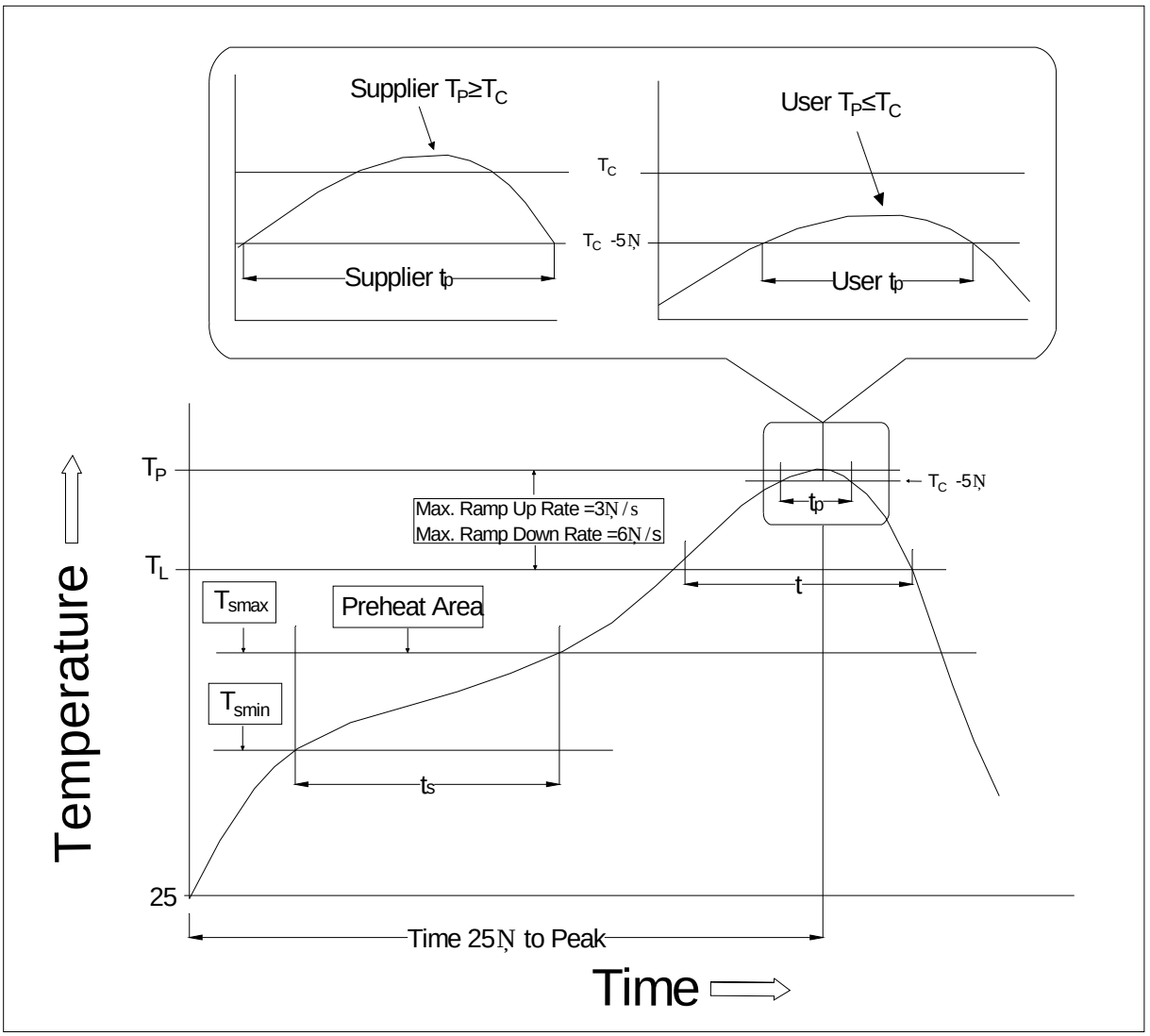


CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option S

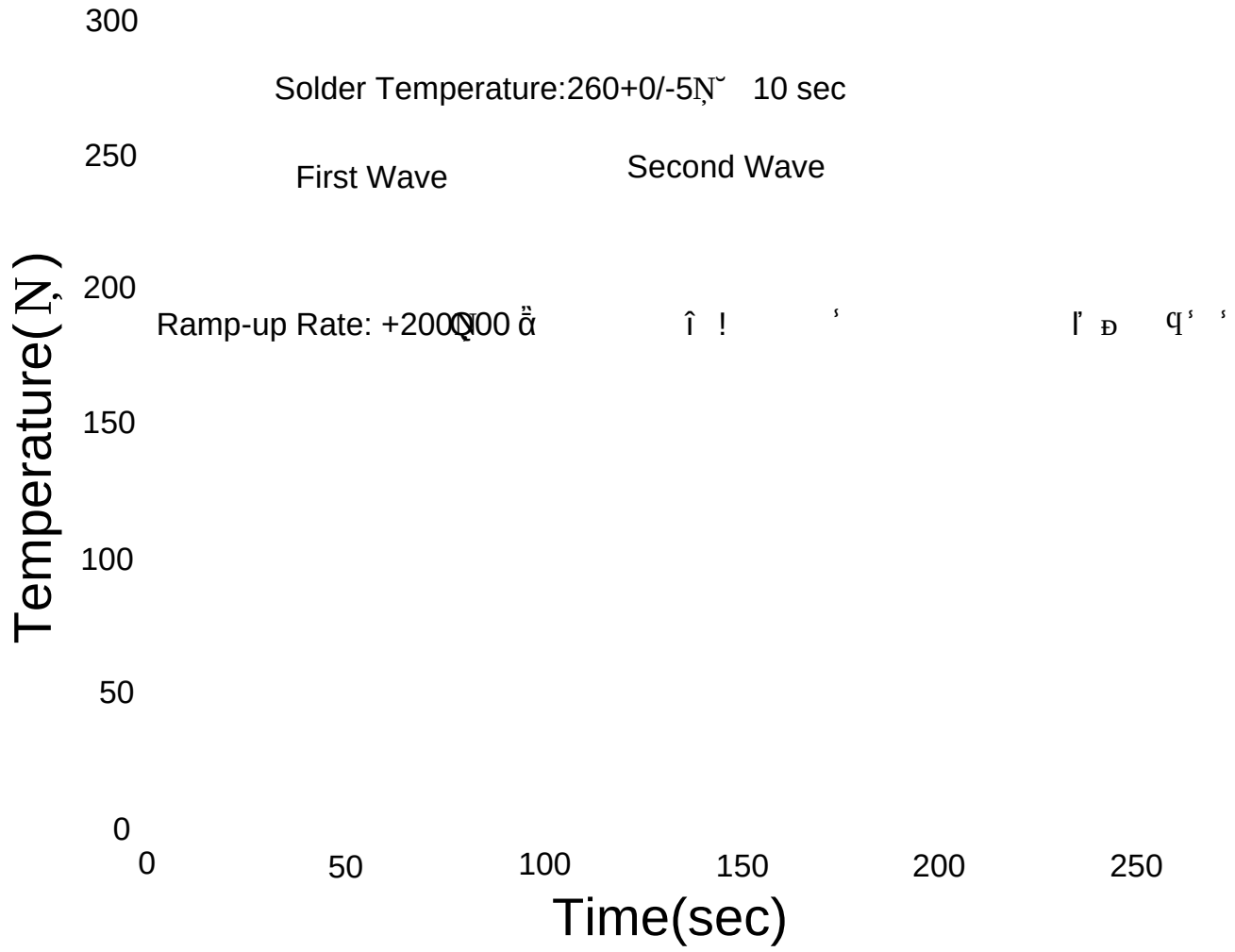
Ref.	Dimensions							
	Millimeters			Inches				
	Min.	Typ.	Max.	Min.	Typ.	Max.	‘	dz

REFLOW INFORMATION



Profile Feature	Sn-Pb Assembly Profile	Pb-Free Assembly Profile
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℃	10 seconds	10 seconds
Ramp-down Rate (TP to TL)	3-6℃/second	3-6℃/second
Time 25℃ to Peak Temperature	6 minutes max.	8 minutes max.

WAVE SOLDERING



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

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