

**JOCMA74Ck-M4 Series**

Rev.A.1.0

**DESCRIPTION:**

The products are 4-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 SOP4 package. The detector consists of a high-speed photovoltaic diode array and driver circuitry. The products are widely used in measuring and testing equipment, security and disaster prevention market, industrial machinery and equipment.

**MAIN FEATURES**

High isolation 3750 Vrms

Operating temperature range -40°C to 110°C

REACH &amp; 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	A
	Reverse Voltage	$V_R$	6	V
	Input Power Dissipation	$P_D$	75	mW
Output	Load Voltage	$V_O$	400	V
	Continuous load current	$I_O$	0.1	A
	Output Power Dissipation	$P_O$	300	mW
Total Power Dissipation		$P_{tot}$	375	mW
Isolation Voltage		$V_{iso}$	3750	Vrms
Operating Temperature		$T_{opr}$	-40~110	
Junction Temperature		$T_j$	125	
Storage Temperature		T		



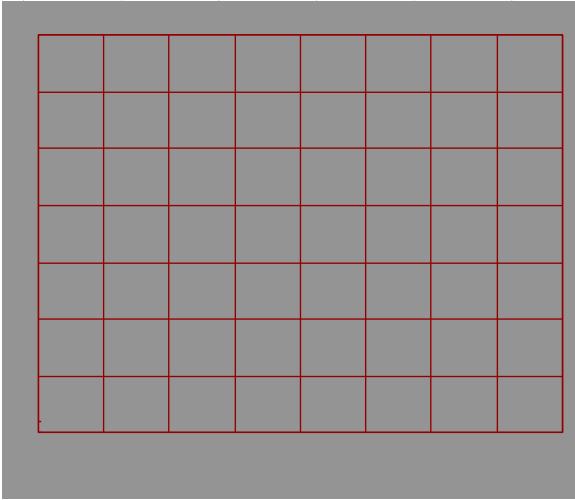
NOTE1: 100 $\mu$ s pulse, 100Hz F

k -M4 /



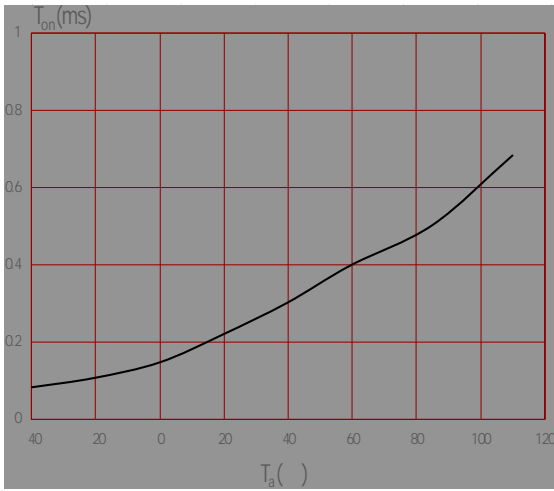
## Characteristics Curves

**FIG.1:** LED Dropout Voltage vs. Ambient Temperature



**FIG.2:** Output Current vs. Output Voltage

**FIG.7:** Turn On Time vs. Ambient Temperature



**FIG.9:** Turn On Time vs. LED Forward Current

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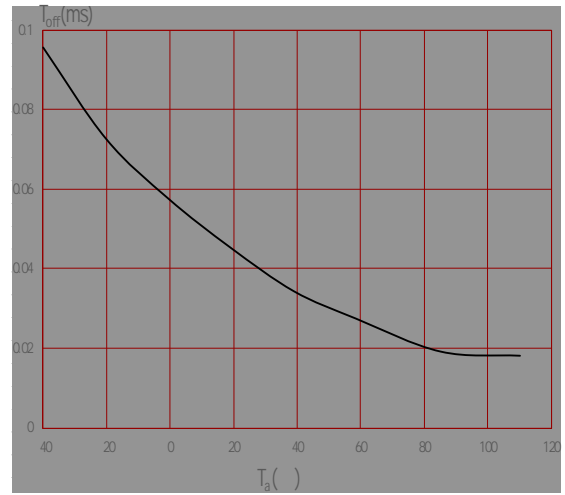
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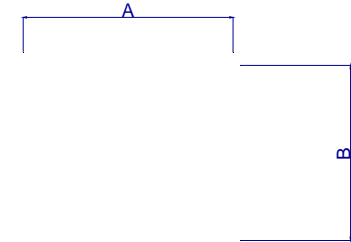
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**FIG.8:** Turn Off Time vs. Ambient Temperature



**FIG.10:** Turn Off Time vs. LED Forward Current

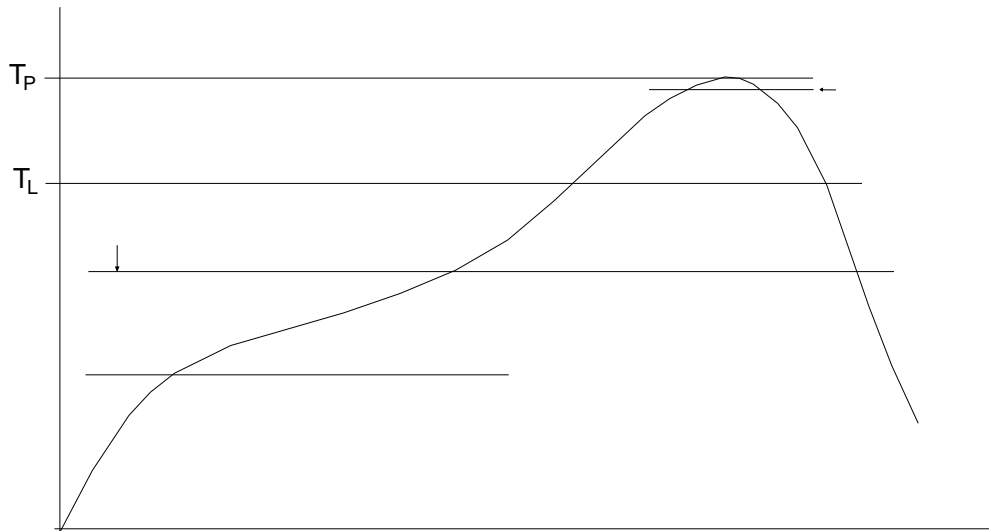
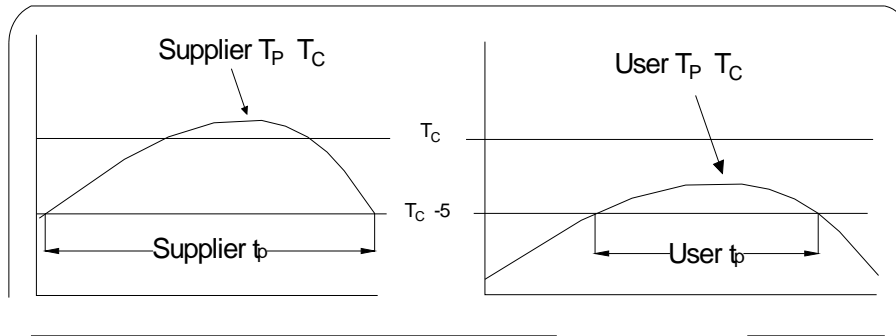
Package Dimension (Unit: mm)





CARRIER TAPE SPECIFICATIONS (Dimensions in mA n A e ise)

REFLOW INFORMATION




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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