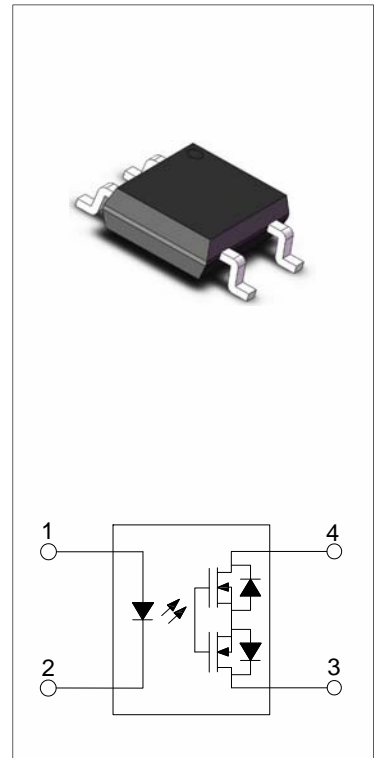




The products are 4-pin optical relays. The device consists of an AlGaAs infrared emitting diode input stage optically coupled to a high-voltage output detector circuit in a plastic SOP4 package. The detector consists of a high-speed photovoltaic diode array and driver circuitry. The products are widely used in measuring and testing equipment, security and disaster prevention market, industrial machinery and equipment.



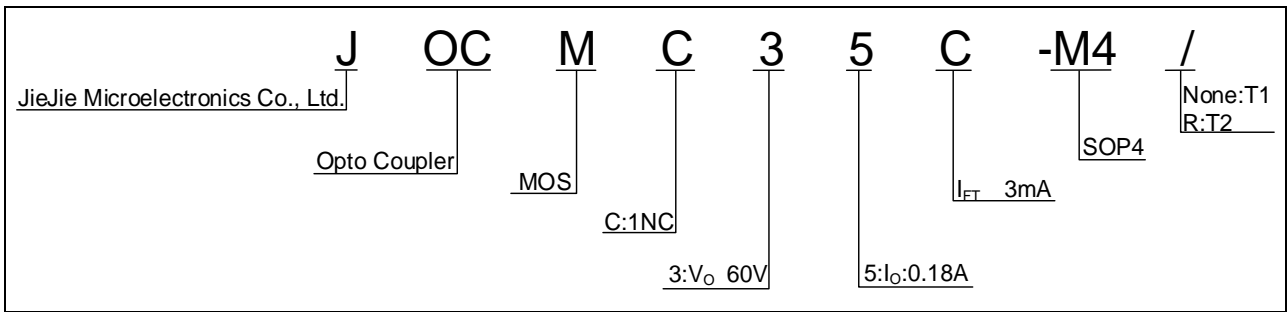
- High isolation 3750 Vrms
- Operating temperature range -40°C to 110°C
- REACH & RoHS compliance
- HBM: H3A; MM: M4; CDM: C3
- CQC approved
- VDE approved
- UL approved

(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	60	V
	Continuous load current	I _O	0.18	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 _{stg}	-40~125	
Soldering Temperature		T _{sol}	260	

(Temperature=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	$I_F=10\text{mA}$	-	1.2	1.5	V
	Reverse Current	I_R	$V_R=6\text{V}$	-	-	1	μA
	Action Current	$I_{F(\text{ON})}$	$I_L=I_{L(\text{MAX})}$	-	0.9	3	mA
	Reset Current	$I_{F(\text{OFF})}$	$I_L=I_{L(\text{MAX})}$	0.4	0.8	-	mA
Output	On Resistance	R_{on}	$I_F=5\text{mA}$ $I_L=\text{Max.}$ Within 1s on time	-	-	8	
	Off State Leakage Current	I_{Leak}	$I_F=0\text{mA}$, $V_L=\text{Max.}$	-	-	1	μA
Switching Characteristics	Isolation Resistance	R_{ISO}	DC500V 40~60%R.H.	10^{12}	-	-	
	Floating Capacitance	C_{IO}	$V=0$, $f=1\text{MHz}$	-	-	1.5	pF
	Turn On Time	t_{on}	$I_F=5\text{mA}$, $I_L=\text{Max.}$	-	0.65	2	ms
	Turn Off Time	t_{off}	$I_F=5\text{mA}$, $I_L=\text{Max.}$	-	0.08	0.2	ms



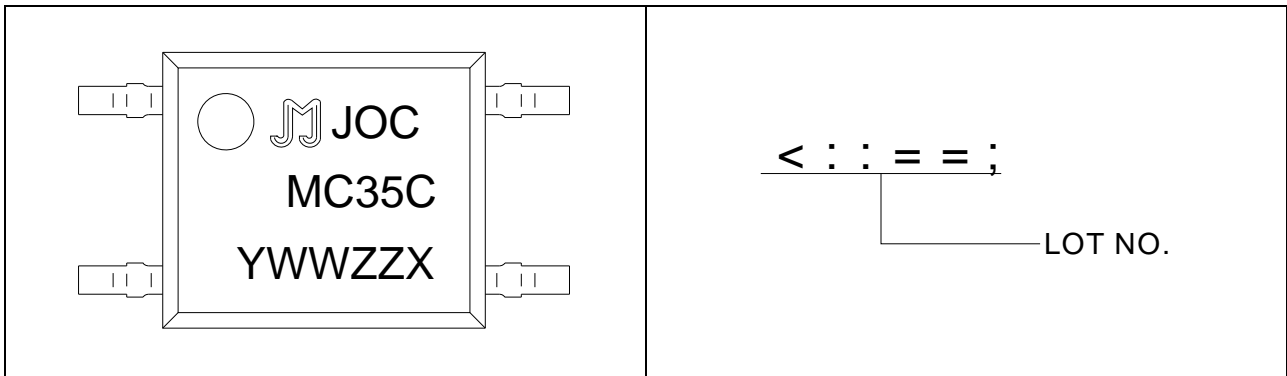


FIG.1: LED Dropout Voltage vs. Ambient Temperature

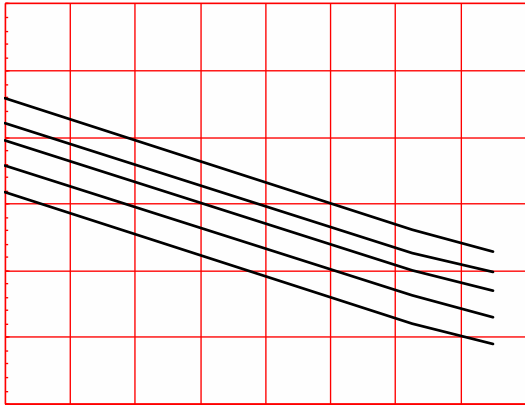


FIG.2: Output Current vs. Output Voltage



FIG.7: Turn On Time vs. Ambient Temperature

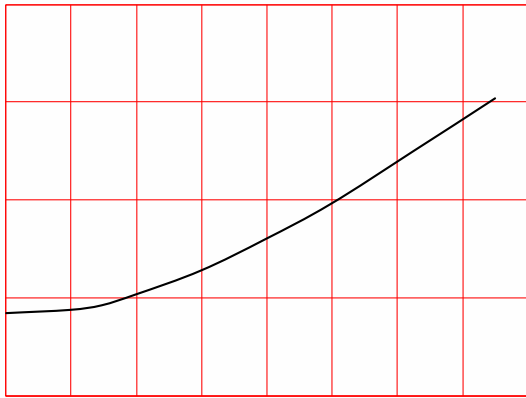


FIG.8: Turn Off Time vs. Ambient Temperature

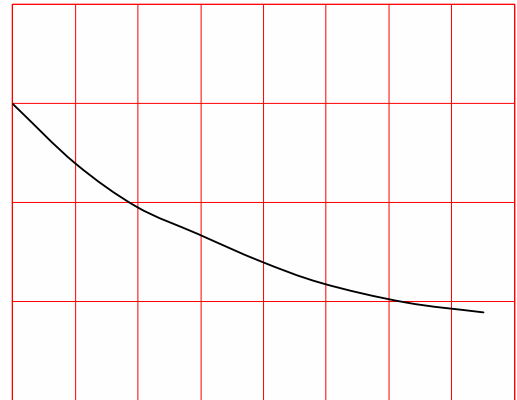


FIG.9: Turn On Time vs. LED Forward Current

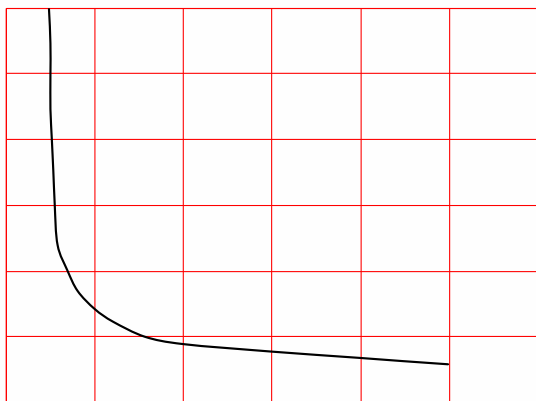


FIG.10: Turn Off Time vs. LED Forward Current

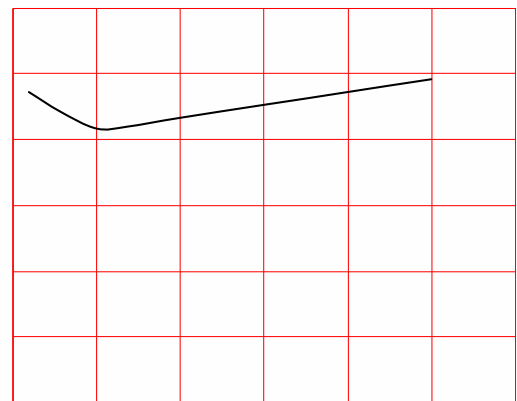


FIG.11: Off State Leakage Current vs. Load Voltage

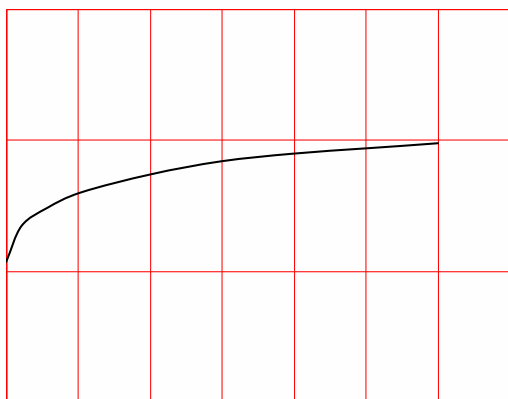
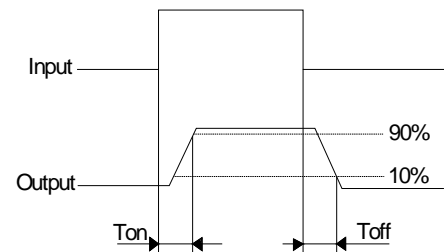
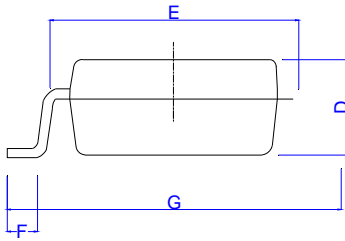
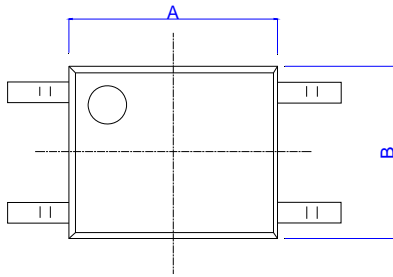


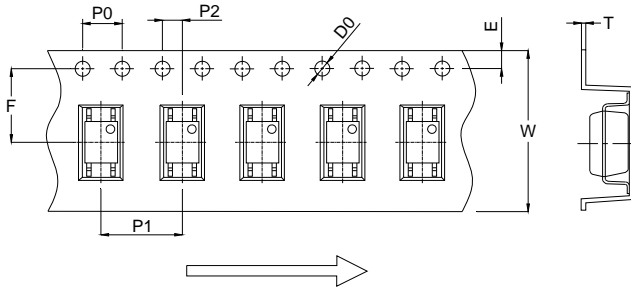
Fig.12: Turn on/Turn off time





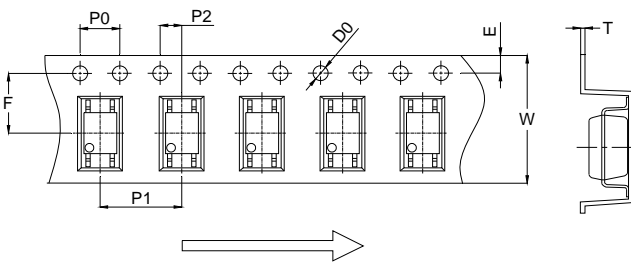
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.80	0.173		0.189
B	3.60		4.20	0.142		0.165
C						
D	1.90		2.30	0.075		0.091
E	5.00		5.60	0.197		0.220
F						
G	6.70			0.264		
H						
I						
J						

Option None

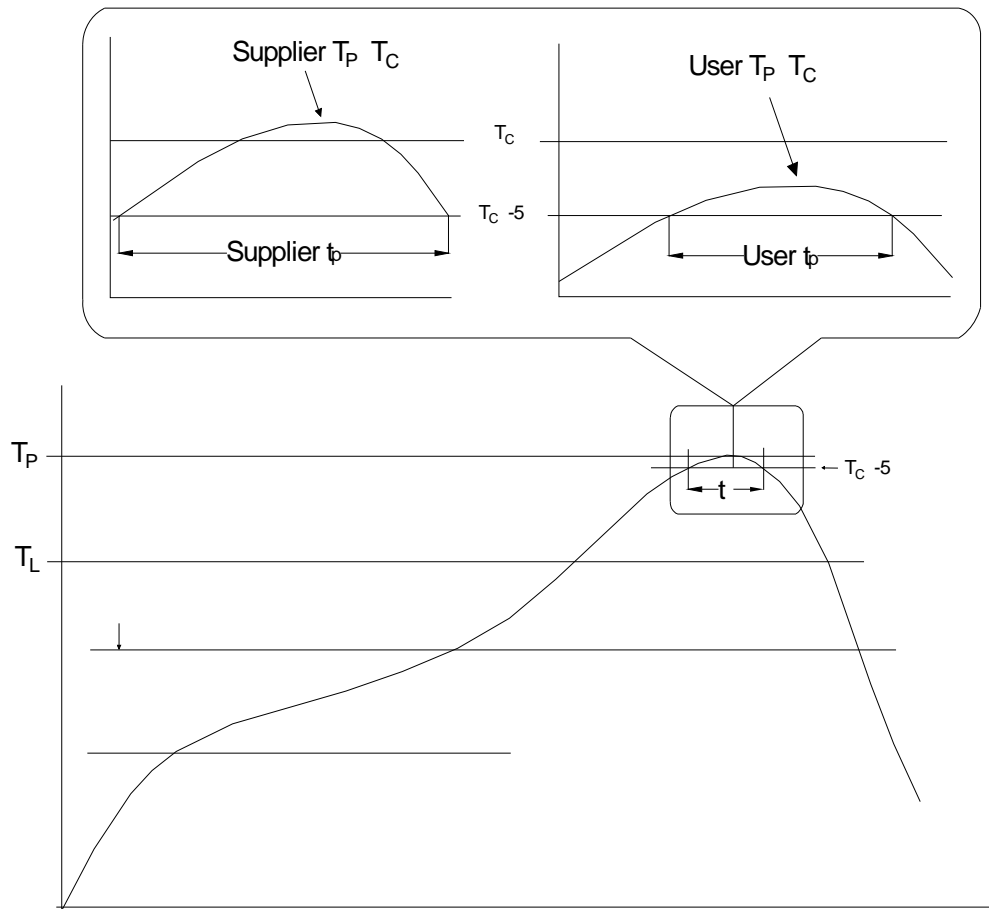


Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.60		0.059	0.063
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	7.90	8.00	8.10	0.311	0.315	0.319
P2	1.90	2.00	2.10	0.075	0.079	0.083
E	1.65	1.75	1.85	0.065	0.069	0.073
F	7.40	7.50	7.60	0.291	0.295	0.299
T	0.27	0.30	0.33	0.011	0.012	0.013
W	15.80	16.00	16.20	0.622	0.630	0.638

Option R



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.60		0.059	0.063
P0	3.90	4.00	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	4.40	4.50	4.60	0.173	0.177	0.181
T	0.25	0.30	0.35	0.010	0.012	0.014
W	11.90	12.00	12.30	0.469	0.472	0.484




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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