JOC307XM4 Series

Rev.A.1.0

The products are 4-pin thyristor opto-couplers. The device combines an AIGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon random-phase photo triac in a plastic SOP4 package. With the robust coplanar double mold structure, the device provides the most stable isolation feature. The products are widely used in solenoid/valve controls, lighting controls, motor controls, temperature controls, static AC power switches,solid state relays, interfacing microprocessors up to 265 V_{AC} peripherals.

High isolation 3750 VRMS
DC input with random-phase photo triac output
Operating temperature range -55 to 110
REACH & RoHS compliance
m

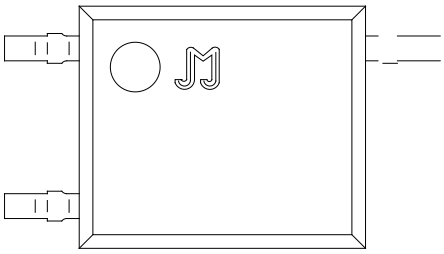


FIG.1: Max. Allowable LED Forward Current vs. Ambient Temperature

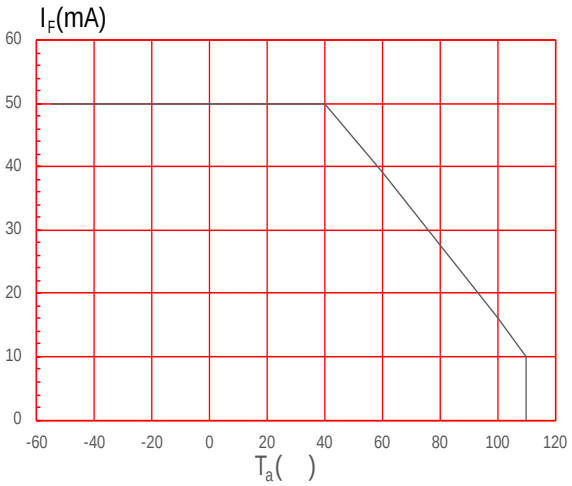


FIG.2: On-state Terminal Current vs. Ambient Temperature

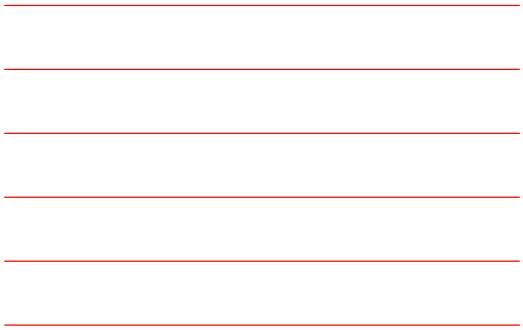


FIG.12: Test Circuits of Turn On Time

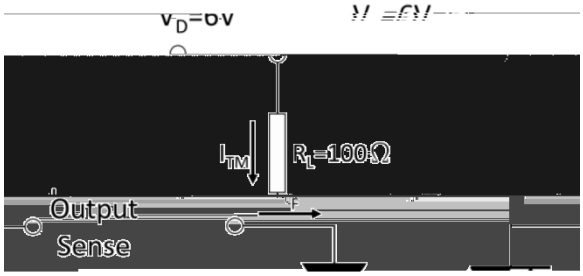


FIG.13: Waveforms of Turn On Time

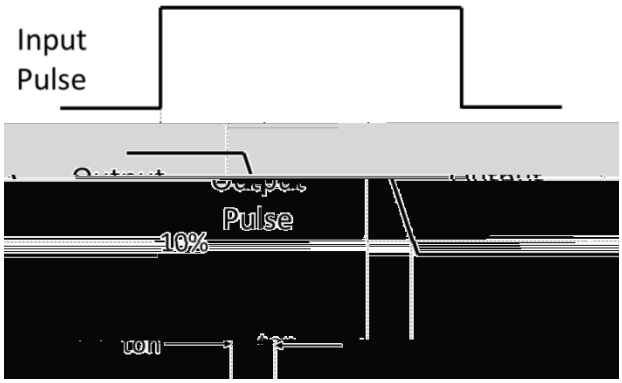


Fig.14: Test Circuits of dV/dt

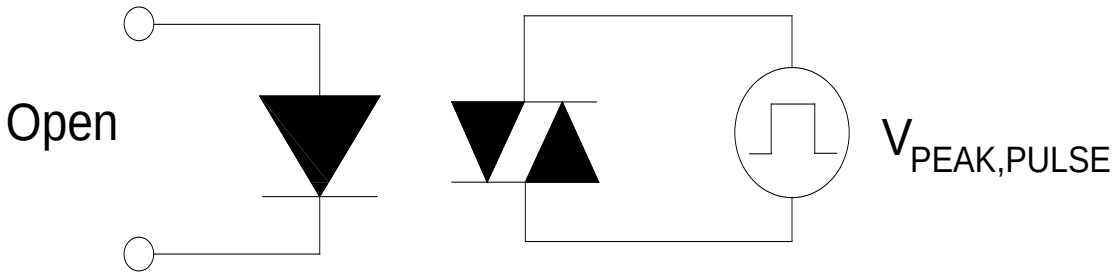
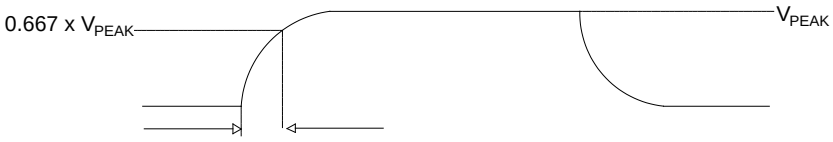
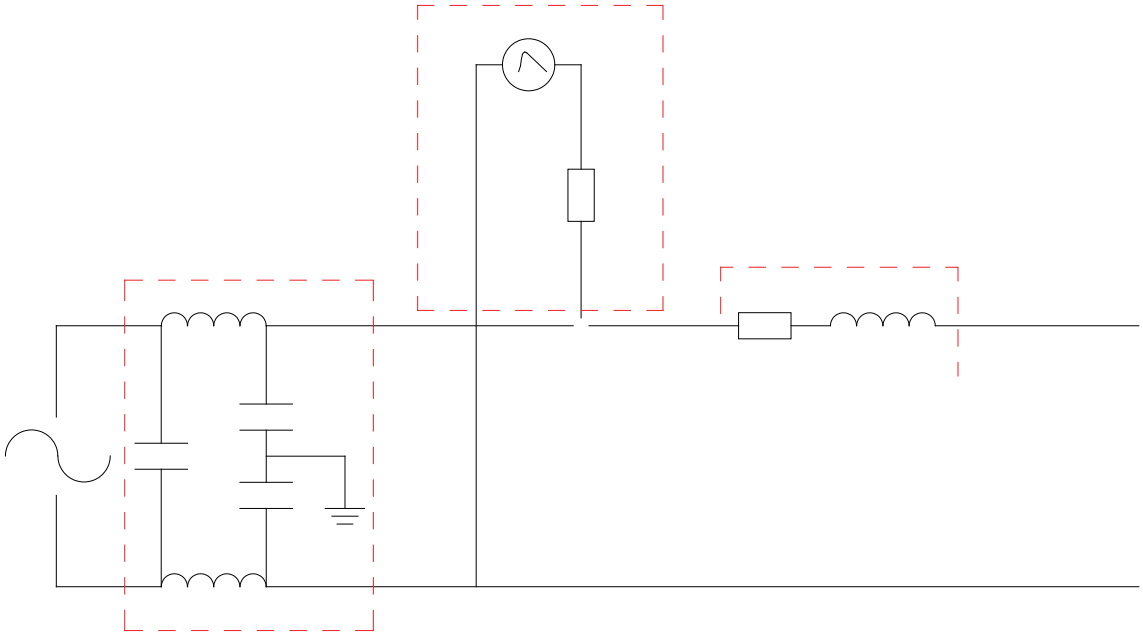


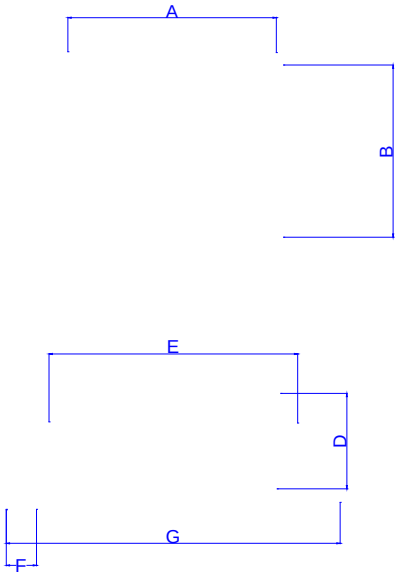
Fig.15: Waveforms of dV/dt



$$dV/dt=\frac{0.667 \times V_{PEAK}}{}$$

FIG.16: Test circuit for inductive and resistive loads to IEC-61000-4-5 standards





Dimensions

Ref.	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.40		4.80	0.173I68Tj	-0F40	
B	3.60		4.20			
C						
E						
G						
I						

Option T1

