



JOC303XM4 Series

Rev.A.1.0

The JOC303XM4 series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon zero-crossing photo triac in a plastic SOP4 package. With the robust coplanar double mold structure, JOC303XM4 series provide the most stable isolation feature. The products are widely used in solenoid/value controls, lighting controls, motor controls, temperature controls, static AC power switches, solid state relays, interfacing microprocessors up to 120 V_{AC} peripherals.

High isolation 3750 VRMS

DC input with zero-crossing photo triac output

Operating temperature range -55

REACH compliance

Halogen free

MSL class 1

HBM: H3A ; MM: M4

CQC approved

VDE approved

UL approved

(Temperature=25°C)

Parameter	Symbol	Value	Unit
Forward Current	I _F	60	mA

Input

FIG.1: Forward Current vs. Ambient Temperature



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

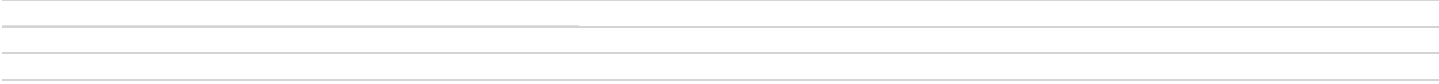


FIG.7: Normalized On-state Terminal Voltage vs. Ambient Temperature

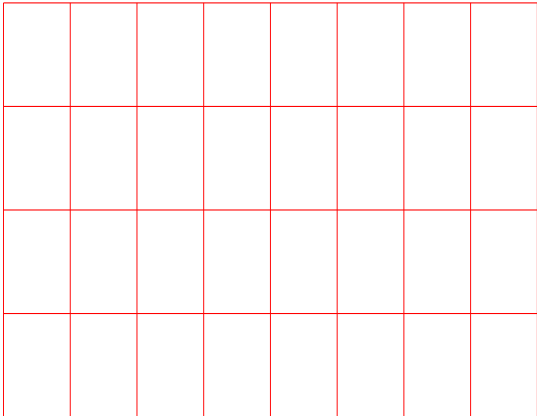


FIG.8: On-state Terminal Voltage vs. On-state Terminal Current

FIG.12: Test Circuits of Turn On Time

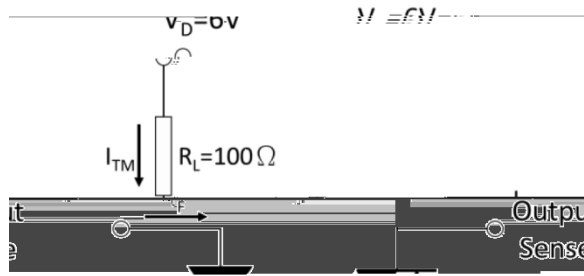


FIG.13: Waveforms of Turn On Time

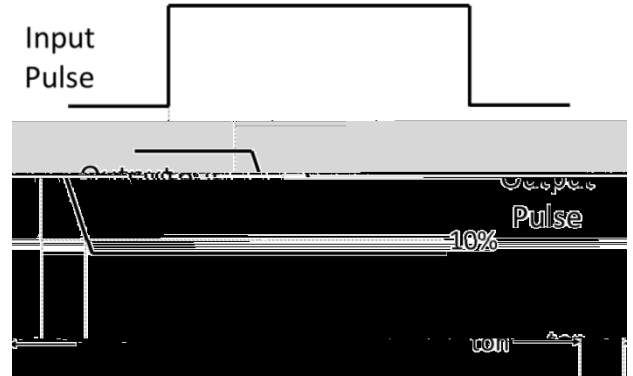


Fig.14: Test Circuits of dV/dt

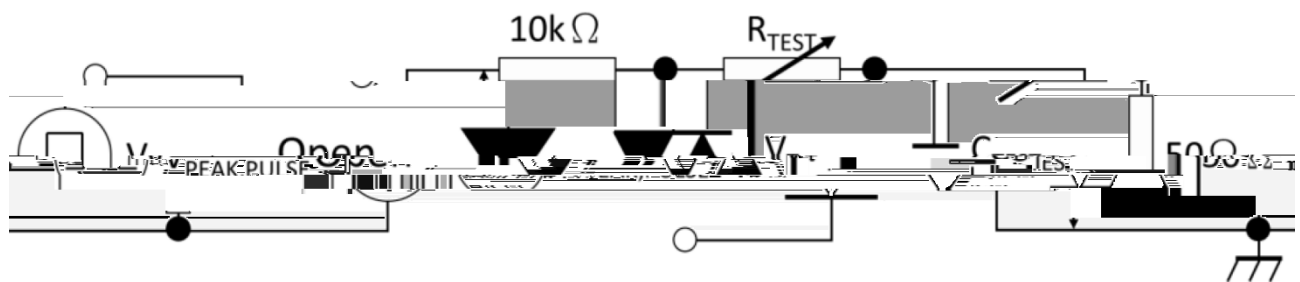
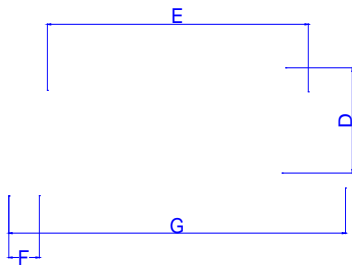
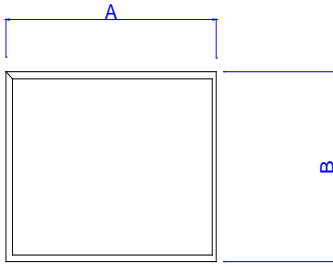
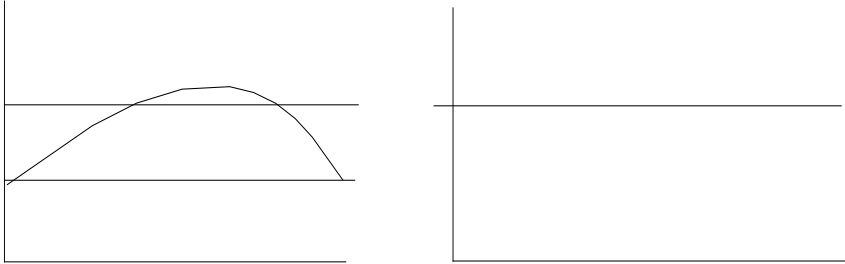


Fig.15: Waveforms of dV/dt





Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	4.20		4.85	0.165		0.191
B	3.30		4.40	0.130		0.173
C						
D	1.75		2.80	0.069		0.110
E	4.90		5.80	0.193		0.228
F						
G	6.30			0.248		
H						
I						
J						



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