JOC306XD4 Series

Rev.A.1.1

DESCRIPTION:

The JOC306XD4 series combine an AIGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon zero-cross photo triac in a plastic DIP4 package with different lead forming options. 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.

MAIN FEATURES

High isolation 5000 VRMS
DC input with zero-cross photo triac output
Operating temperature range -55 ł wr 433 ł
UHDFK) UrKV frpsoldqfh
HBM: K6D› P P= P7
CQC approved
VDE approved
UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

	Power Dissipation Derating ($T_a \geq 25$)	ΔP_D/	-3.33	mW/
Total Power Dissipation		P_{tot}	350	mW
Isolation Voltage		V_{iso}	5000	Vrms
Operating Temperature		T_{opr}	-55~100	
Storage Temperature		T_{stg}	-55~125	
Soldering Temperature		T_{sol}	260	

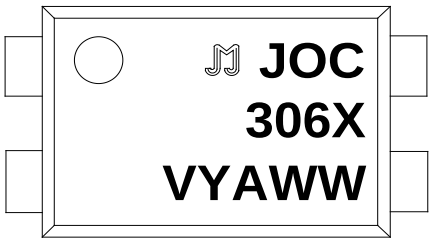
NOTE1 AC for 1minute, R.H.=40~60%

NOTE2 For 10 seconds

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified) /Tf 5 (.)]TJ 0 Tc 0 Tw 1.43 0 Td ( )Tj EMC /P <</MCID 50

ORDERING AND MARKING INFORMATION

MARKING INFORMATION



JOC : Company Abbr.
306X : Part Number & Rank
VYAWW : LOT NO.

ORDERING INFORMATION

JOC306XD4(Y)(Z)-GV

JOC – Company Abbr.
306X – Part Number (1/2/3)
D4 – DIP4 Package
Y – Lead Form Option (M/S/SL/SLM/None)
Z – Tape and Reel Option (T1/T3)
G – Green
V – VDE Option (V or None)

Packing Quantity

Option	Quantity	Quantity – Inner box	Quantity –Outer box

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

FIG.8: On-state Terminal Voltage vs. On-state Terminal Current0

TEST CIRCUITS

FIG.12: Test Circuits of Turn On Time

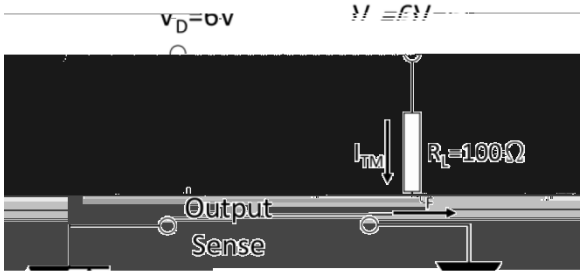


FIG.13: Waveforms of Turn On Time

Fig.14: Test Circuits of dV/dt

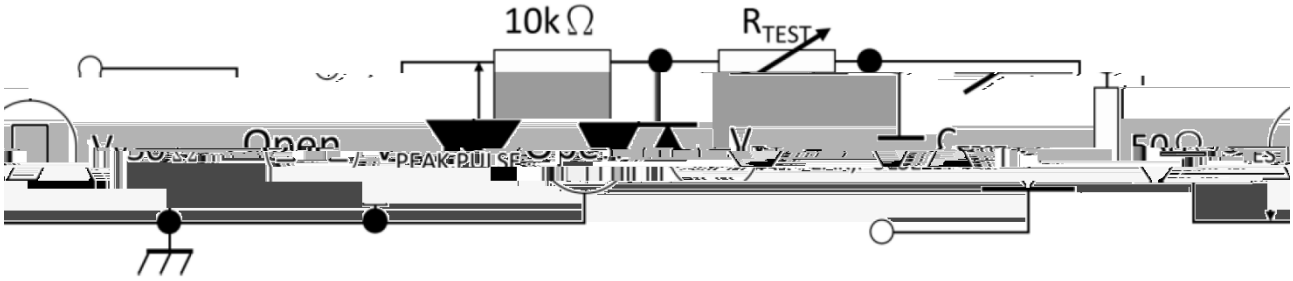
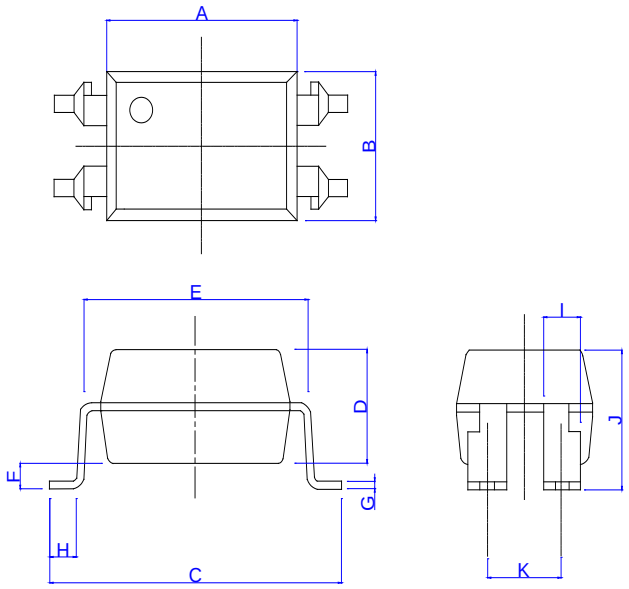


Fig.15: Waveforms of dV/dt

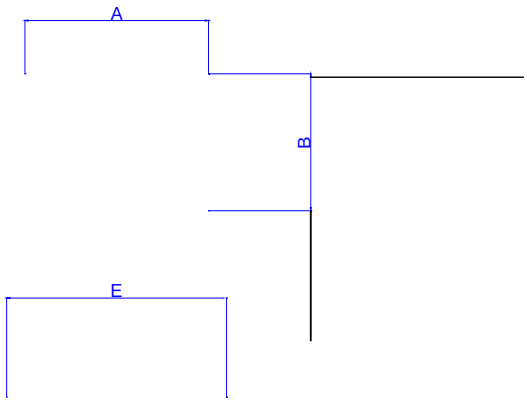
Option S Type:



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	6.30		6.70	0.249		0.265
B	4.38		4.78	0.173		0.189
C	9.85		10.45	0.389		0.413
D	3.30		3.70	0.130		0.146
E	7.32		7.92	0.289		0.313
F		0.80			0.032	
G		0.25			0.010	
H		0.80			0.032	
I	1.20		1.40	0.047		0.055
J	4.00		4.60	0.158		0.182
K		2.54			0.100	

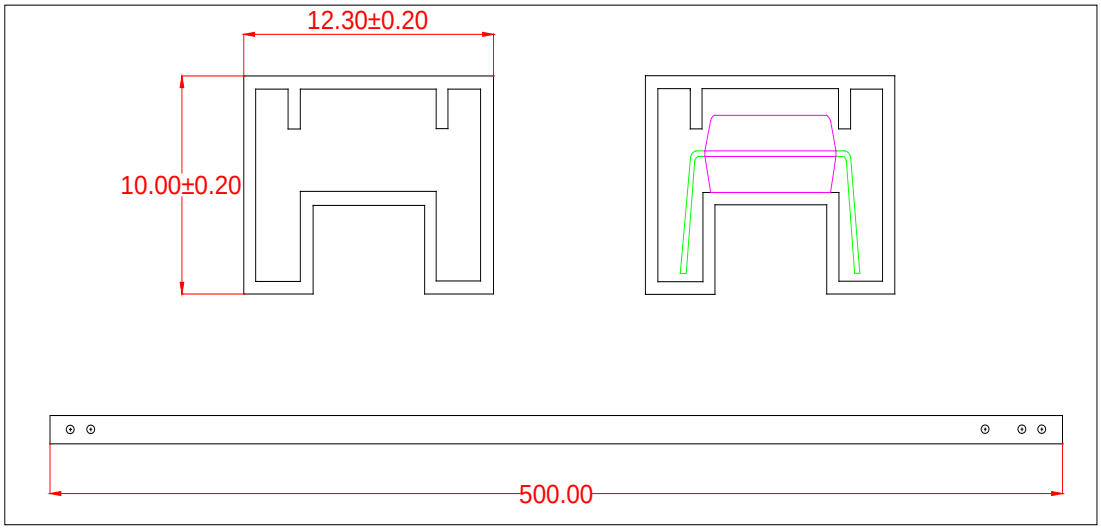
Option SL Type:

Option SLM Type:

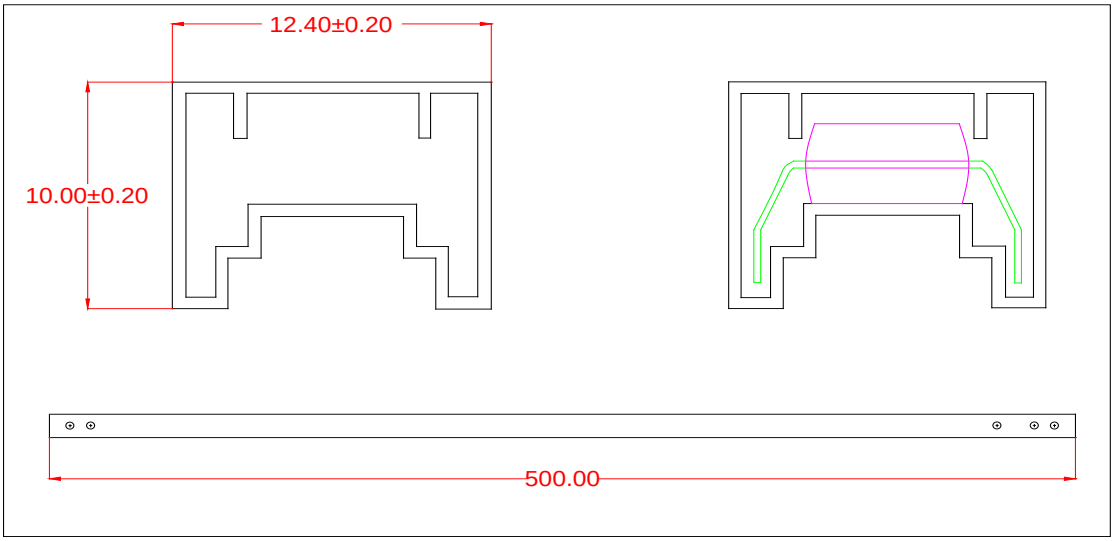


TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

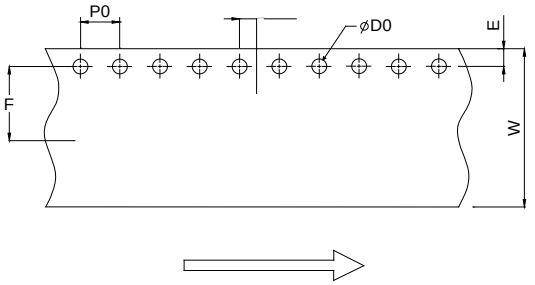
Standard DIP



Option M

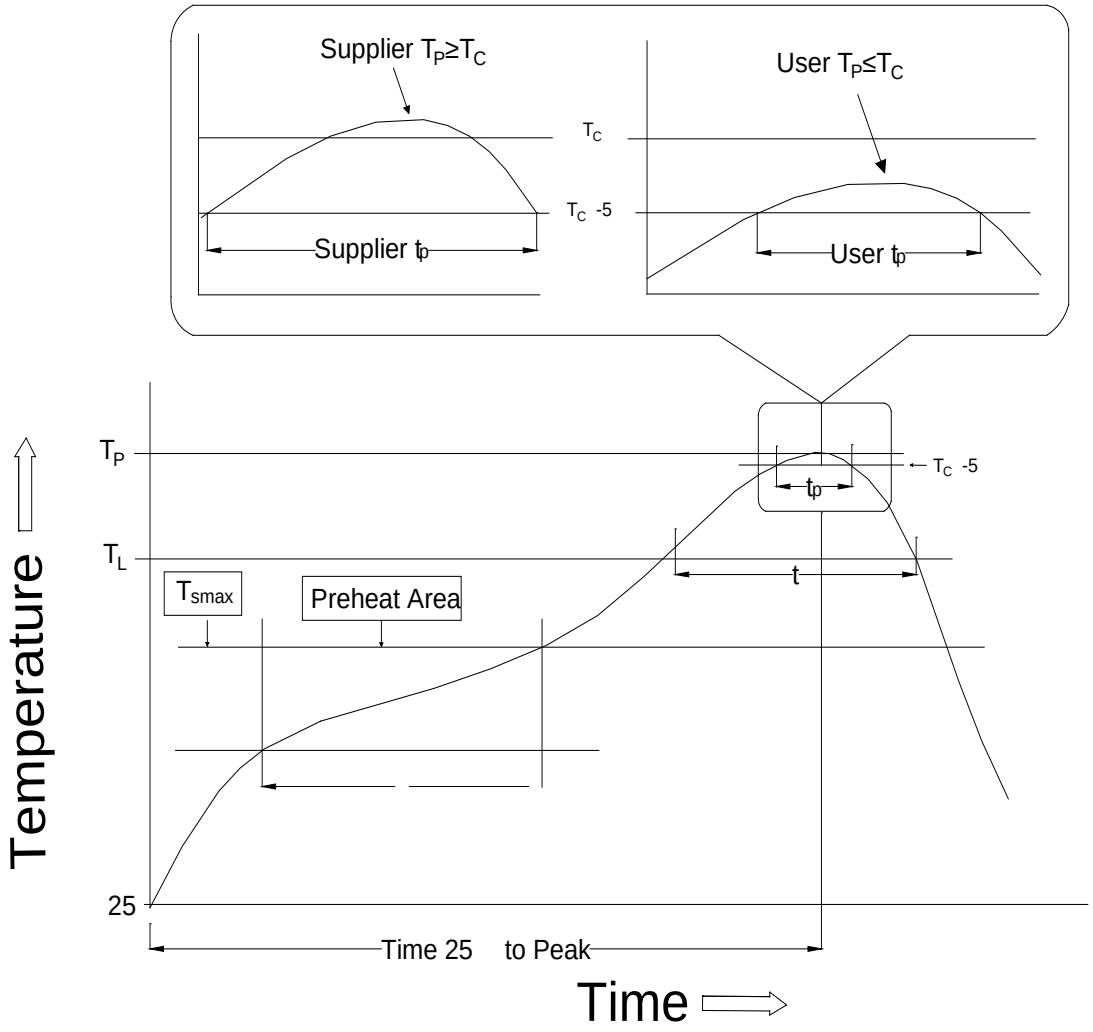


Option SL(T3)

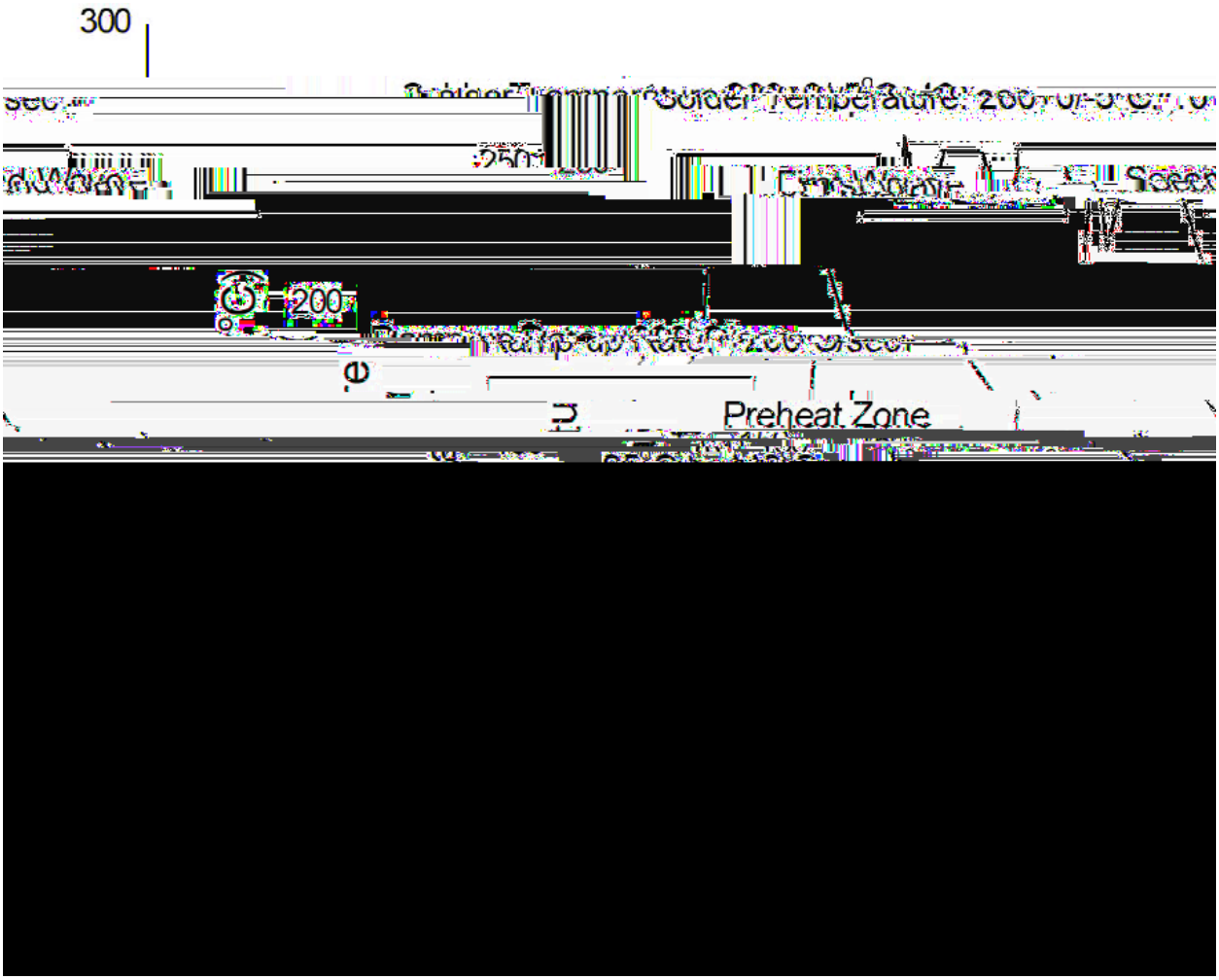


Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0						
P0						
P1		12.00			0.472	
P2						
E		1.75			0.069	
F		7.50				
T		0.40			0.016	
W		16.00			0.630	

REFLOW INFORMATION



WAVE SOLDERING



HAND SOLDERING BY SOLDERING IRON	
Soldering Temperature	360 5
Soldering Time	3s max.

Document Revision History

Date	Revision	Changes
Apr.2, 2025	A.1.0	Last update
Nov.5, 2025	A.1.1	Add SLM package

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