



JOC307XD4 Series

Rev.A.1.1

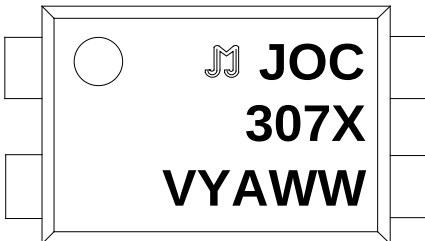
DESCRIPTION:

The JOC307XD4 series combine an AlGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon random-phase photo triac in a plastic DIP4 package with different lead forming options. With the robust coplanar double mold structure, JOC307XD4 series provide the most stable isolation feature. The products are widely used in solenoid/valve controls, lighting controls, motor controls, temperature controls,

	Junction Temperature	T_j	125	
	Output Power Dissipation	P_o	250	mW
	Power Dissipation Derating ($T_a \geq 25\text{ }^{\circ}\text{C}$)	$\Delta P_D/$	-3.33	mW/
Total Power Dissipation		P_{tot}	350	mW
Isolation Voltage		V_{iso}	5000 V	Vrms

Operating Temperature

ORDERING AND MARKING INFORMATION

MARKING INFORMATION			
		JOC : Company Abbr. 307X : Part Number & Rank V :	
ORDERING INFORMATION			
JOC307XD4(Y)(Z)-GV			
JOC – Company Abbr. 307X – 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
None	100 Units/Tube	32 Tubes/Inner box	10 Inner box/Outer box =32k Units
M	100 Units/Tube	32 Tubes/Inner box	10 Inner box/Outer box =32k Units
S(T1)	1500 Units/Reel	3 Reels/Inner box	

Characteristics Curves

FIG.1: Forward Current vs. Ambient Temperature

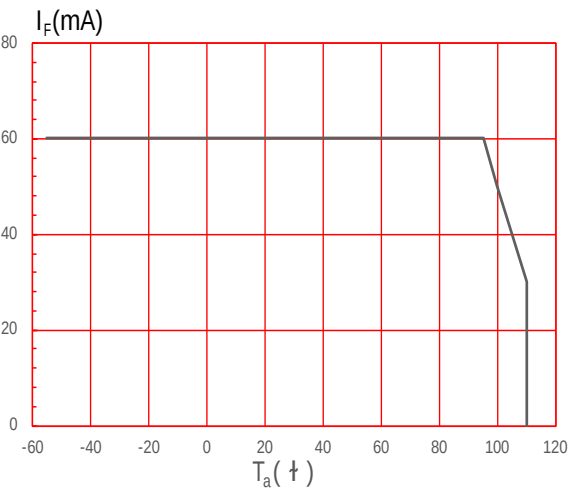
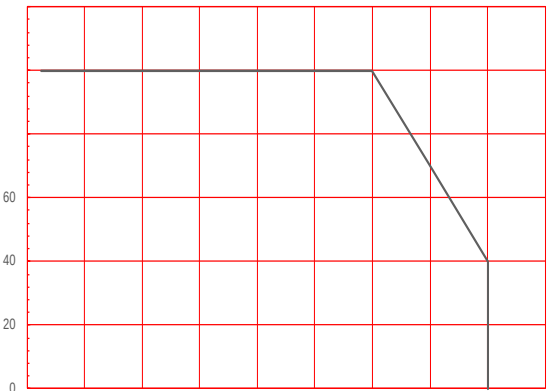


FIG.2: On-state Terminal Current vs. Ambient Temperature



TEST CIRCUITS

FIG.12: Test Circuits of Turn On Time

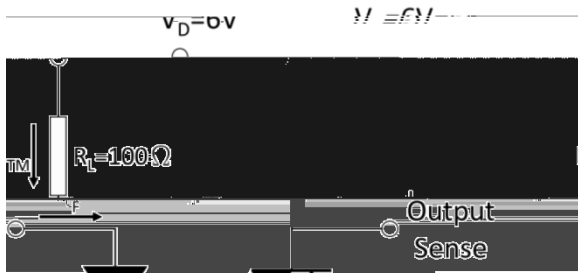


FIG.13: Waveforms of Turn On Time

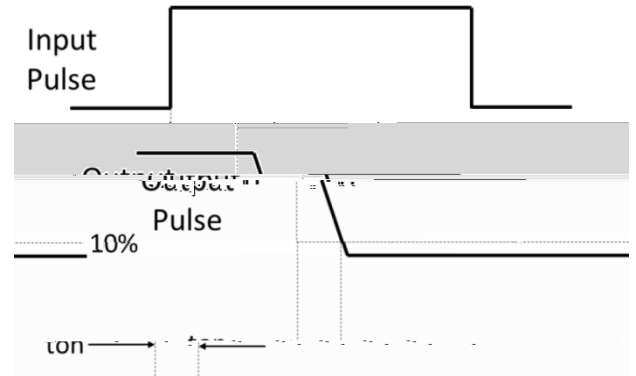


Fig.14: Test Circuits of dV/dt

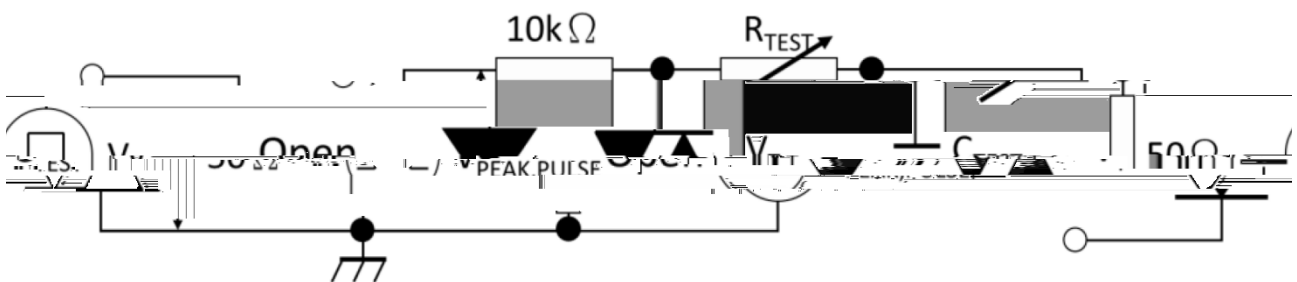
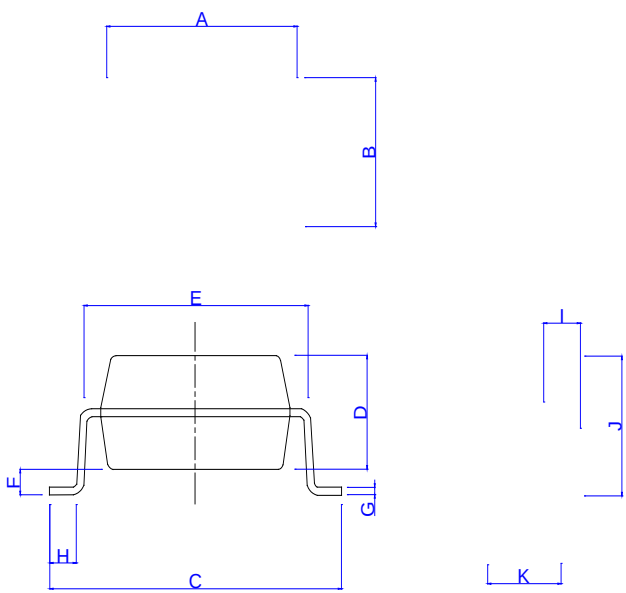


Fig.15: Waveforms of dV/dt



Option S Type:



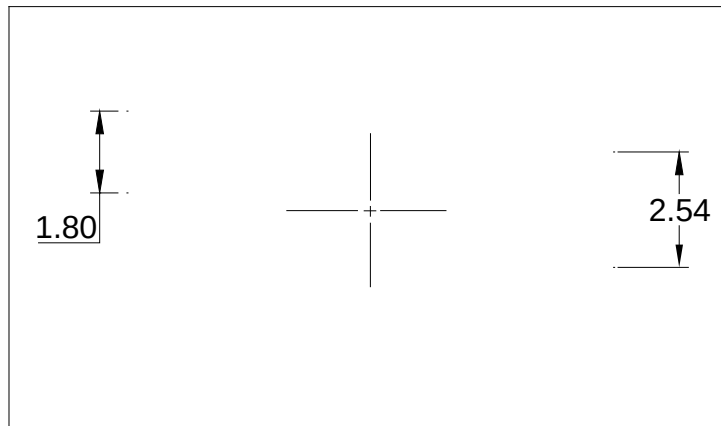
Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	6.30		6.70	0.249		0.265
B	4.38		4.78	0.173		0.189
C	9.85		10.45	0.389		0.413
E	7.32		7.92	0.289		0.313
G						
I						
K						

Option SLM Type:



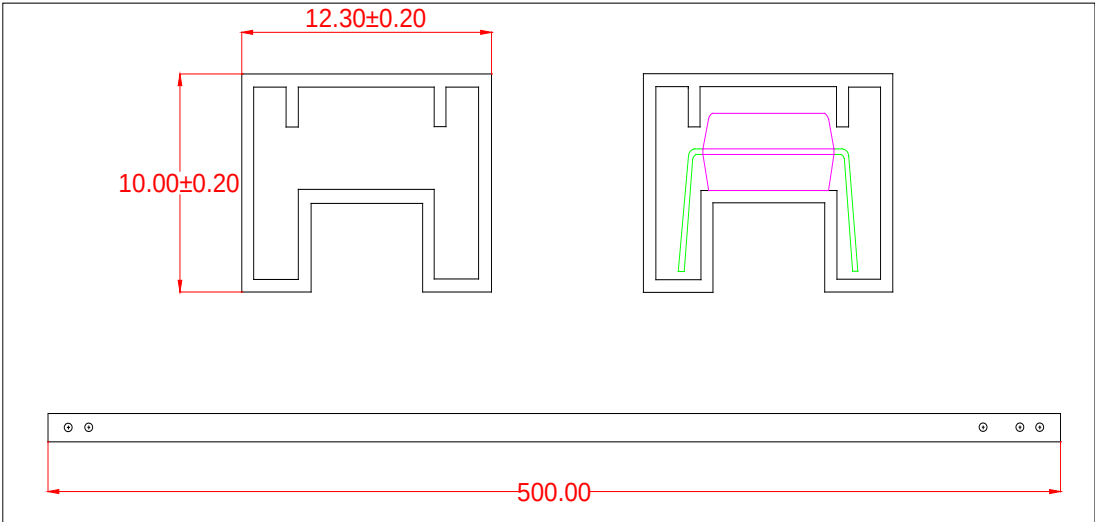
RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

Option S/SL

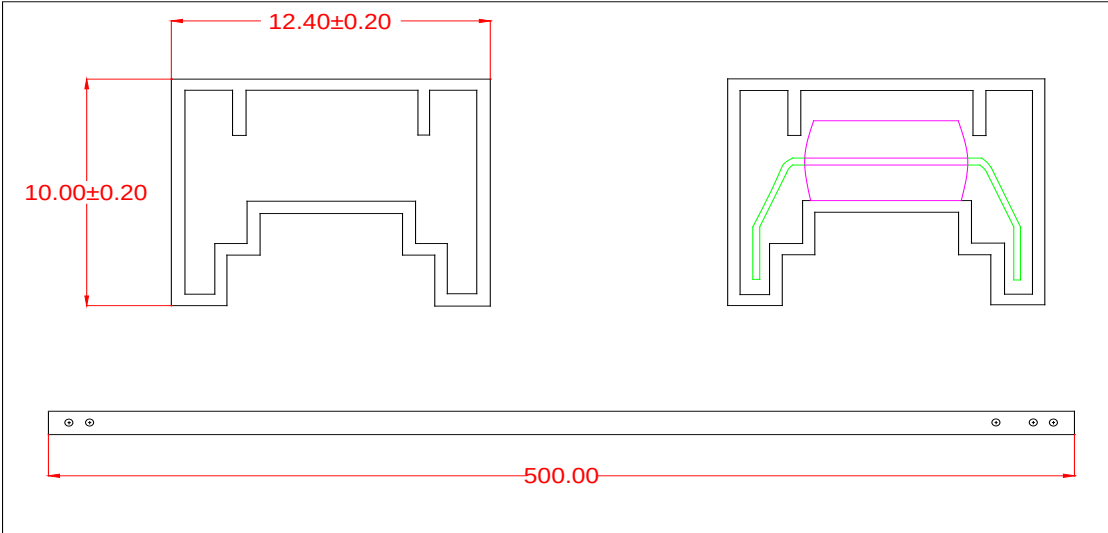


TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Standard DIP

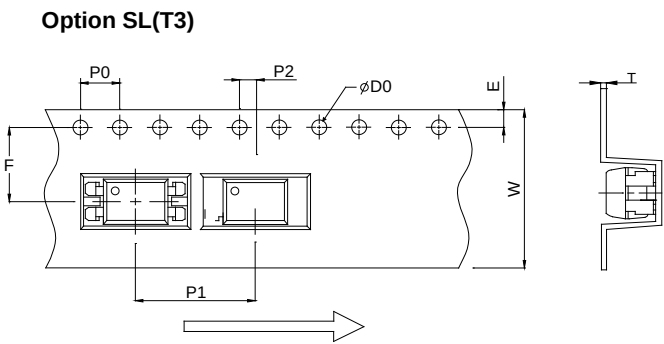


Option M



CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)**Option S(T1)**

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50			0.059	
P0		4.00			0.157	
P1		8.00			0.315	
P2		2.00			0.079	
E		1.75			0.069	
F		7.50			0.295	
T		0.40			0.016	
W		16.00			0.630	



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50			0.059	
P0		4.00			0.157	
P1		12.00			0.472	
P2		2.00			0.079	
E		1.75			0.069	
F		7.50			0.295	
T		0.40			0.016	
W		16.00			0.630	

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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