JOC307X Series

Rev.A.1.1

DESCRIPTION:

The JOC307X series combine an AIGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon random-phase photo triac in a plastic DIP6 package with different lead forming options. With the robust coplanar double mold structure, JOC307X series provide 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.

MAIN FEATURES

High isolation 5000 VRMS

DC input with random-phase photo triac output

Operating temperature range -55 - Z U -

8 + ') . 8 U . 9 I U S V R O G T I K

HBM: . ' ! 3 3 3

CQC approved

VDE approved

UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter		Symbol	Value	Unit
	Forward Current	I_F	60	mA
	Reverse Voltage			

/P <</MCID 148 22.68f 162(M /P <</MCID 148 22.68f 162(M /P <<MCID 148

Input

ORDERING AND MARKING INFORMATION

MARKING INFORMATION Tw 00q4pti1(

Characteristics Curves

FIG.1: Forward Current vs. Ambient Temperature

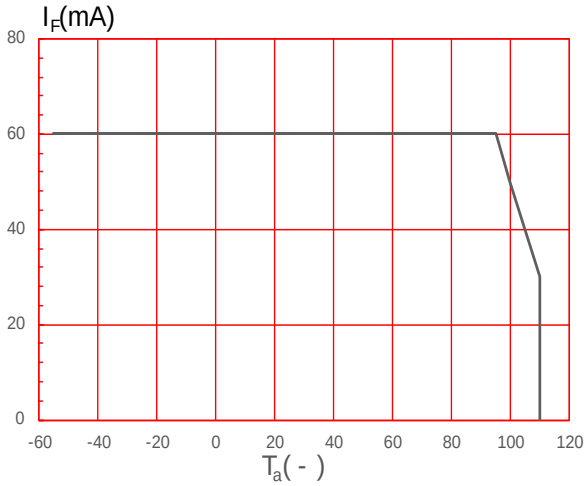


FIG.2: On-state Terminal Current vs. Ambient Temperature

TEST CIRCUITS

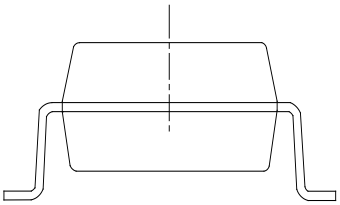
FIG.12: Test Circuits of Turn On Time

FIG.13: Waveforms of Turn On Time

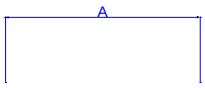
Fig.14: Test Circuits of dV/dt

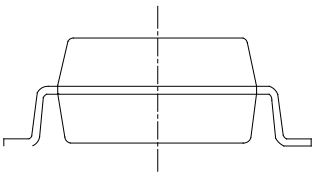
Fig.15: Waveforms of dV/dt

Option S Type:

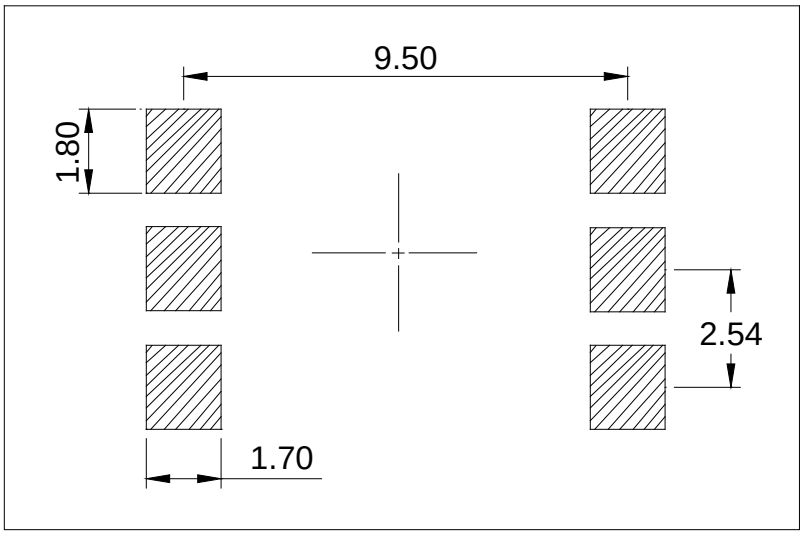


Option SLM Type: DimensionsMillimetersInchesRef.Min.Typ.Max.Min.Typ.Max.

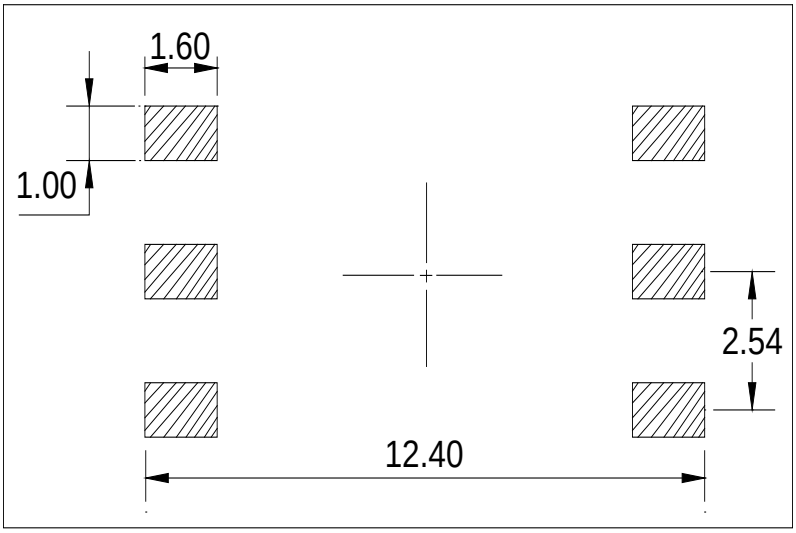




Option SL

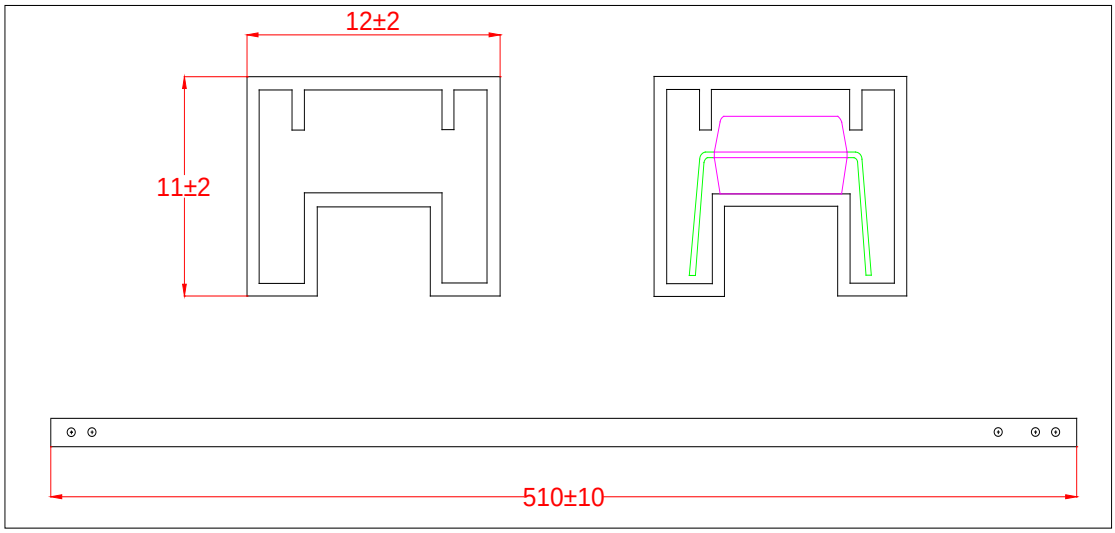


Option SLM

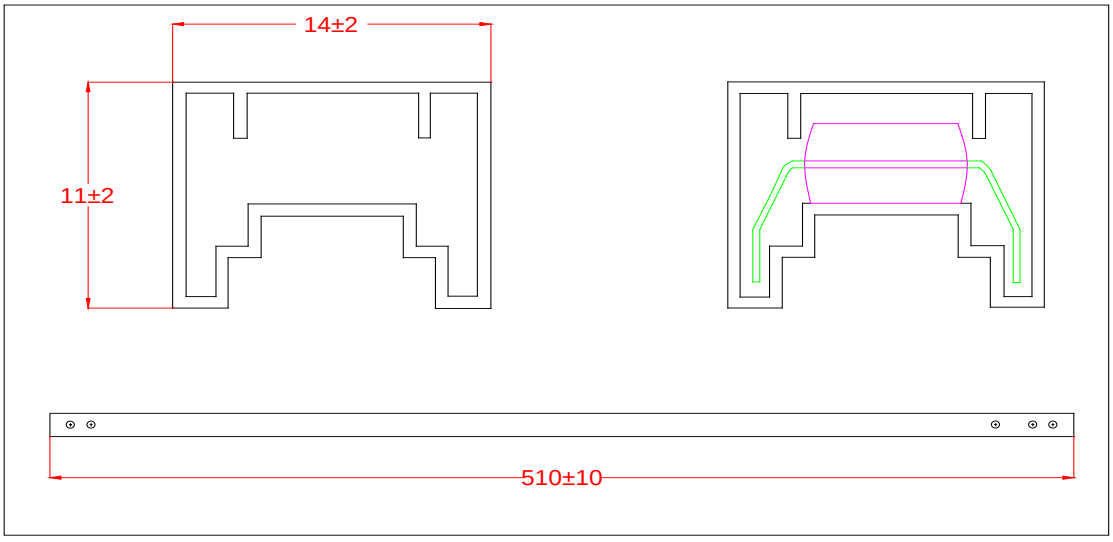


TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Standard DIP

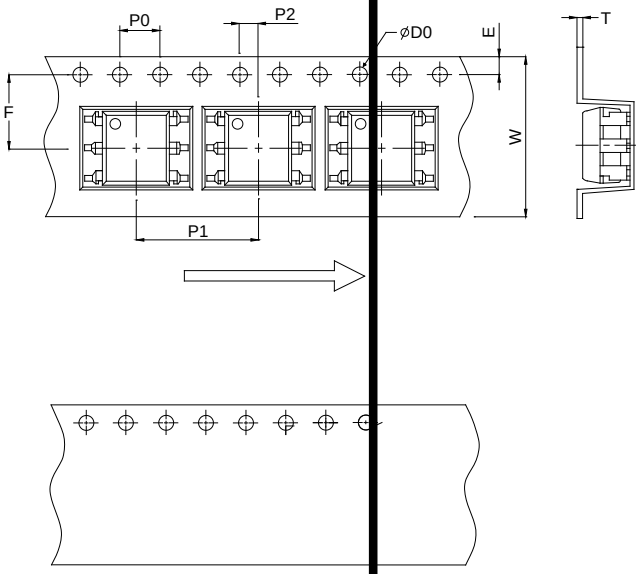


Option M



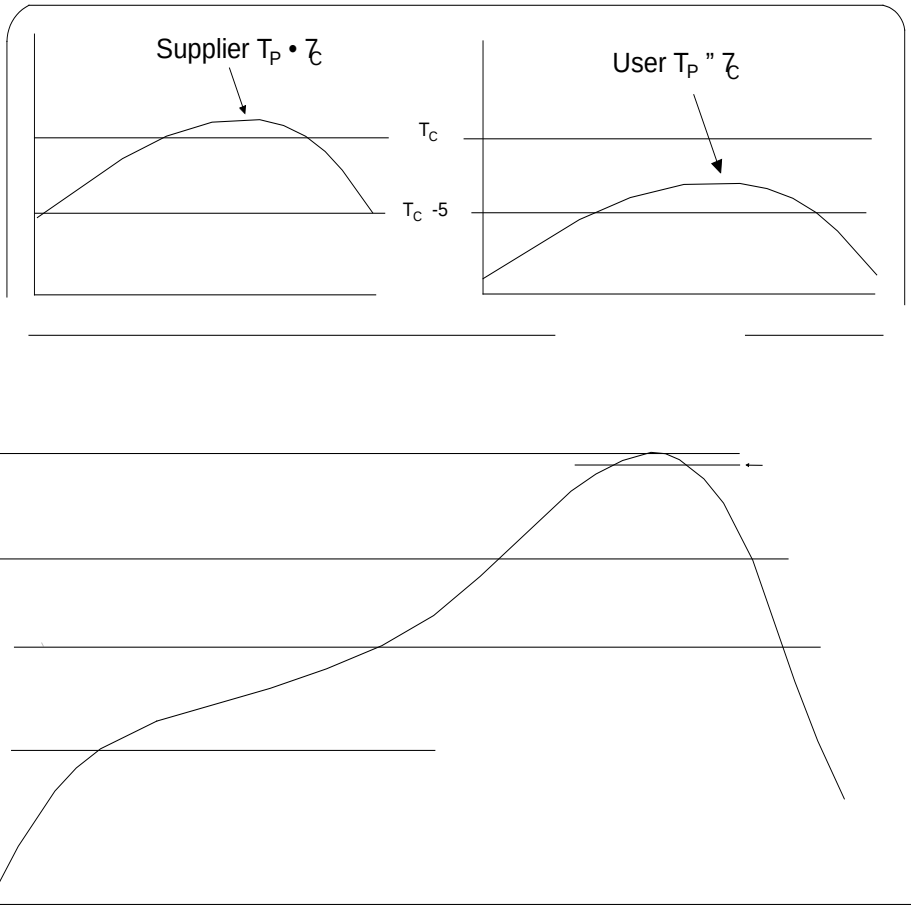
CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option S(T1)



Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
D0		1.50	1.65		0.059	0.065
P0	3.90	4.00	4.10	0.154	0.157	0.161
P1	11.90	12.00	12.10	0.469	0.472	0.476
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	0.25	0.35	0.45	0.010	0.014	0.018
W	15.70	16.00	16.30	0.618	0.630	0.642

REFLOW INFORMATION



Document Revision History

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

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