



DESCRIPTION:

The JOC308XD5 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 DIP5 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<sub>AC</sub> peripherals.



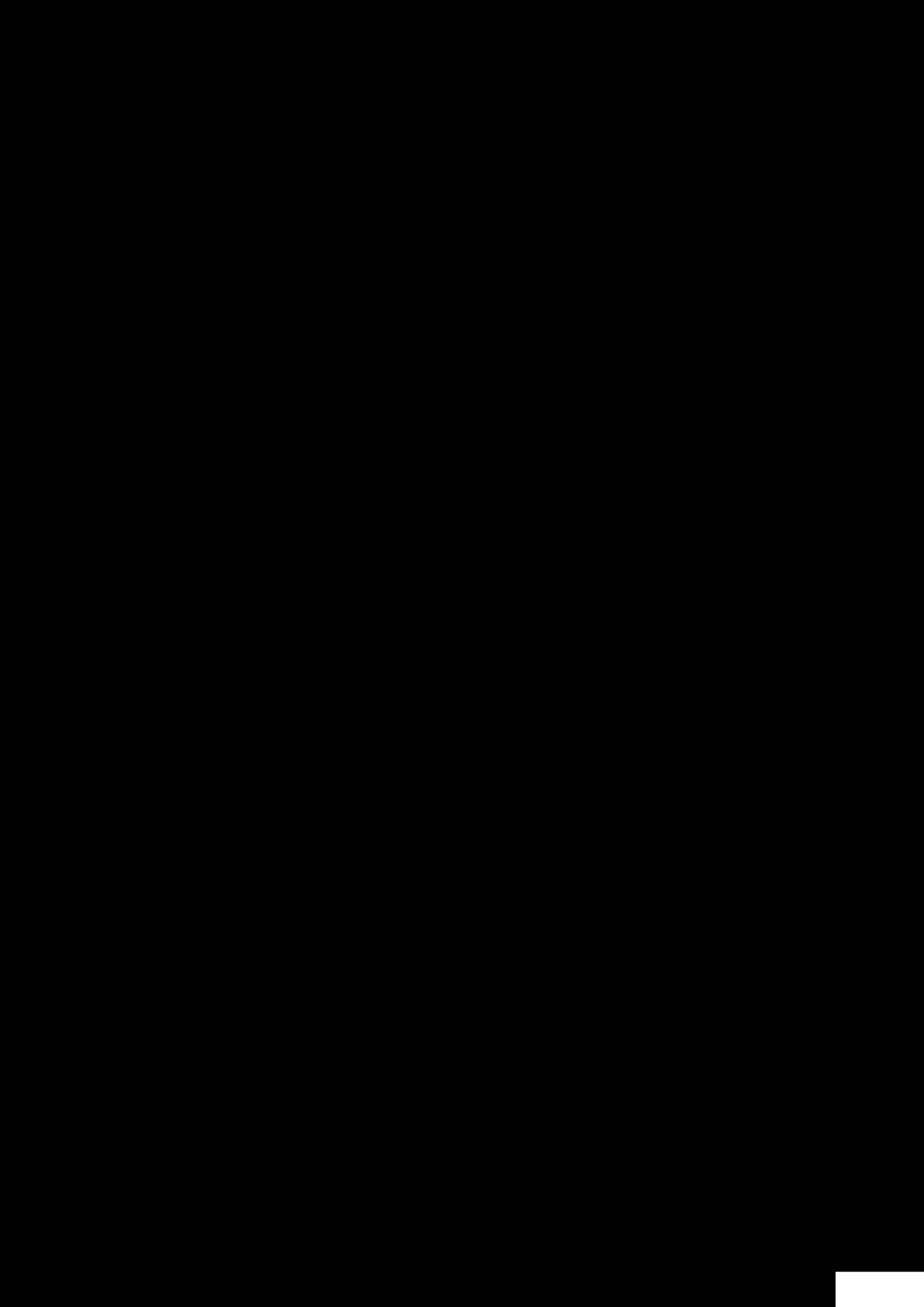
MAIN FEATURES

- High isolation 5000 VRMS
- DC input with zero-crossing photo triac output
- Operating temperature range -55

- HBM:
- CQC approved
- VDE approved
- UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter		Symbol	Value	Unit
Input	Forward Current	I <sub>F</sub>	60	mA
	Reverse Voltage	V <sub>R</sub>	6	V
	Junction Temperature	T <sub>j</sub>	125	
	Input Power Dissipation	P <sub>I</sub>	100	mW
	Power Dissipation Derating (T <sub>a</sub> 25 )	P <sub>D</sub> /	-1.33	mW/
Output	Off-state Output Terminal Voltage	V <sub>OFF</sub>	800	V
	3 HDN 2 Q í V W D W H & X U U H Q W pulse, 120 pps)	I <sub>TP</sub>	2	A
	On-state RMS Current	I <sub>T(RMS)</sub>	100	mA
	Peak Repetitive Surge Current (P <sub>W</sub> =10 ms)	I <sub>TSM</sub>	1	A
	Junction Temperature	T <sub>j</sub>	125	
	Output Power Dissipation	P <sub>O</sub>	250	mW



ORDERING AND MARKING INFORMATION

M

JOC308XD5



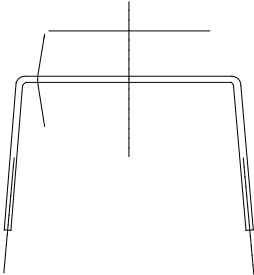
## TEST CIRCUITS

FIG.12: Test Circuits of Turn On Time

FIG.13: Waveforms of Turn On Time

Package Dimension (Unit:mm)

Standard DIP Type:



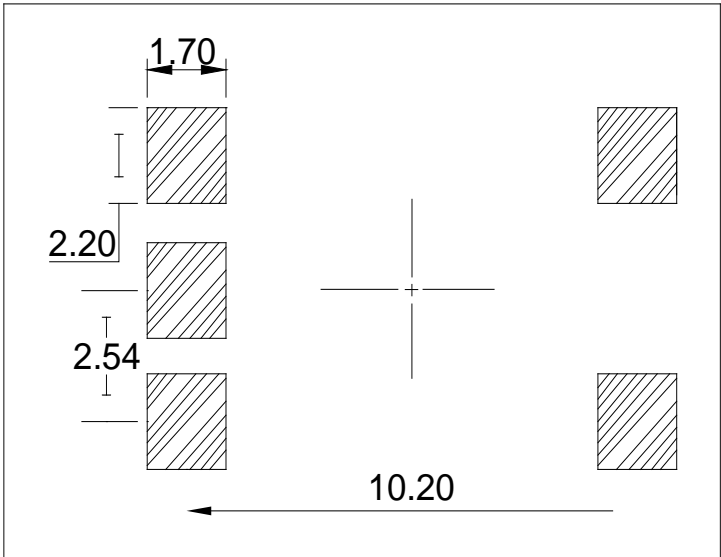
Option S Type:



Option SLM Type:



Option SL

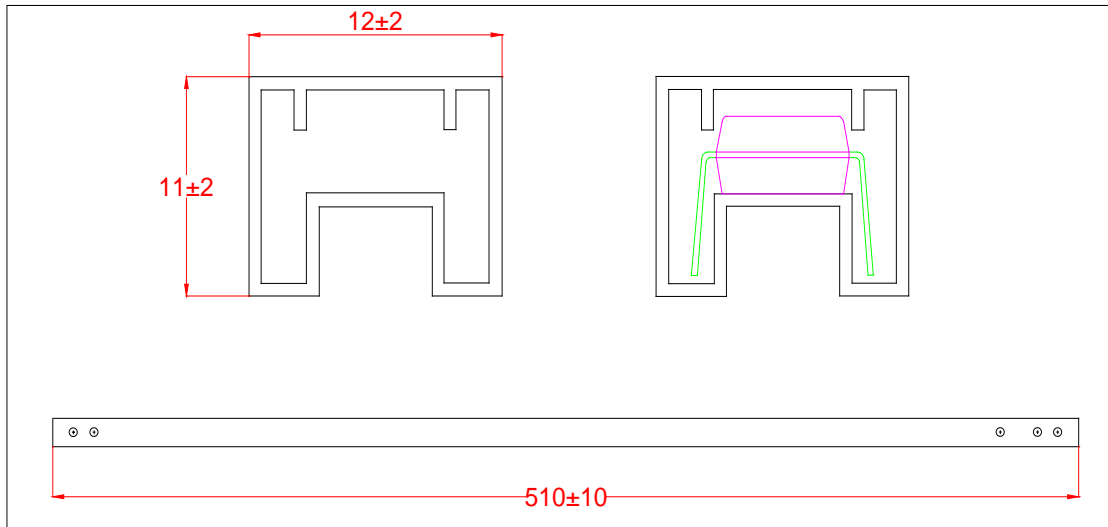


Option SLM

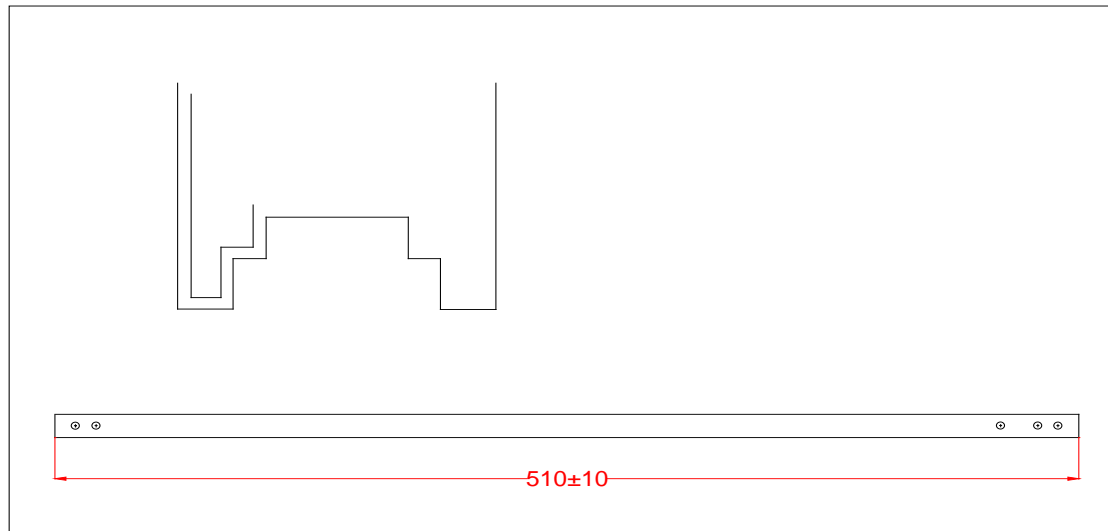


TUBE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

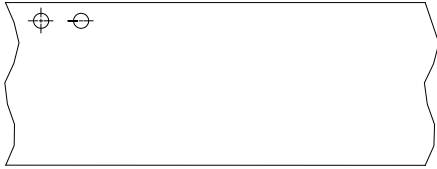
Standard DIP



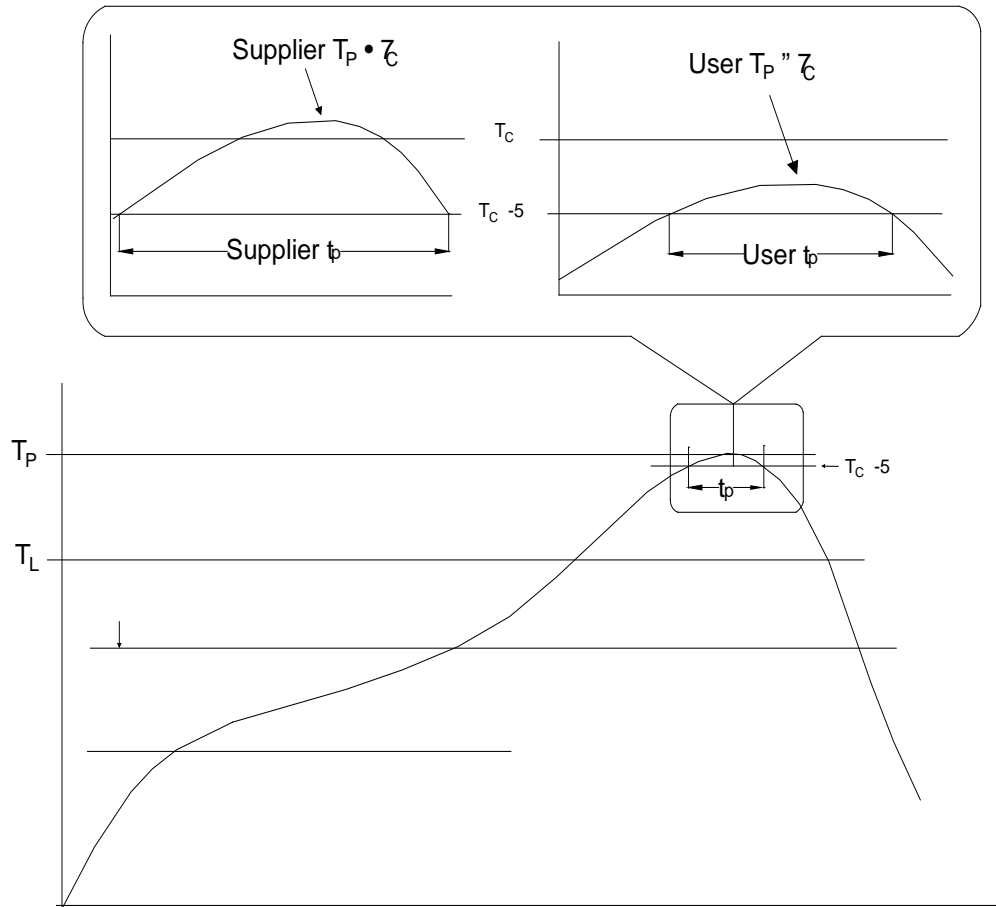
Option M



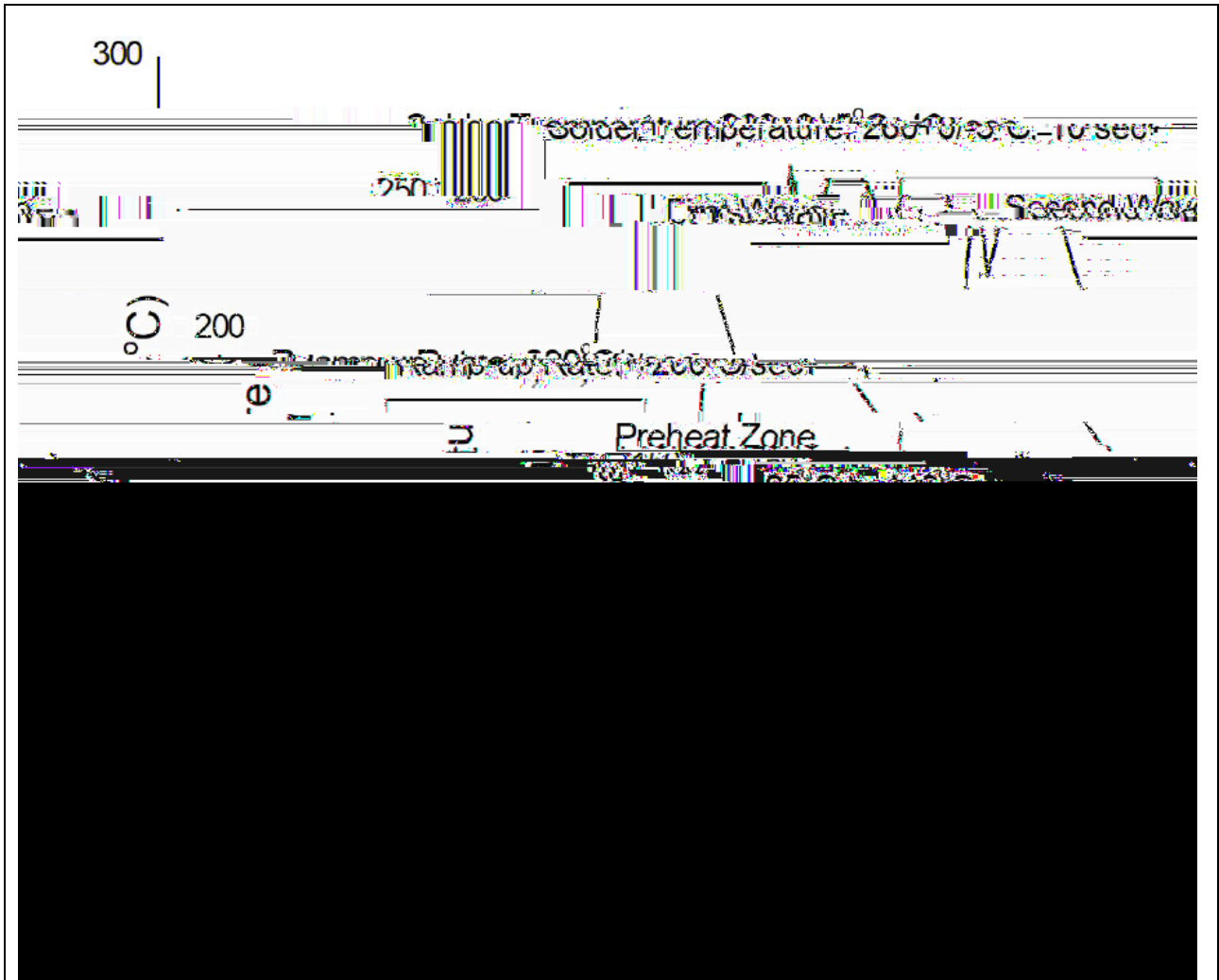
CARRIER TAPE SPECIFICATIONS Dimensions in mm unless otherwise stated - 68



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.6, 2025	A.1.1	Add S&SLM package

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