JOC305XD5 Series

Rev.A.1.1

DESCRIPTION:

The JOC305XD5 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 DIP5 package with different lead forming options. With the robust coplanar double mold structure, JOC305XD5 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

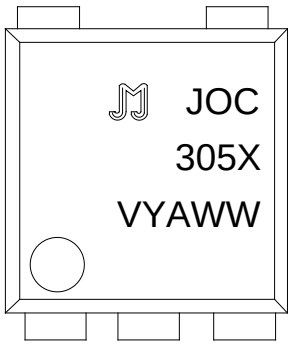
VDE approved

UL approved

Junction Temperature	T_j	125

ORDERING AND MARKING INFORMATION

MARKING INFORMATION



JOC : Company Abbr.
305X: Part Number & Rank
V : VDE

ORDERING INFORMATION

JOC305XD5(Y)(Z)-GV

JOC– Company Abbr.
305X – Part Number (1/2/3)
D5 – DIP5 Package
Y – Lead Form Option (M/S/SL/SLM/None)
Z – Tape and Reel Option (T1)
G – Green Option (G or None)
V – VDE Option (V or None)

Packing Quantity

Option	Quantity	Quantity – Inner box	Quantity – Outer box

Characteristics Curves

FIG.1: Forward Current vs. Ambient Temperature

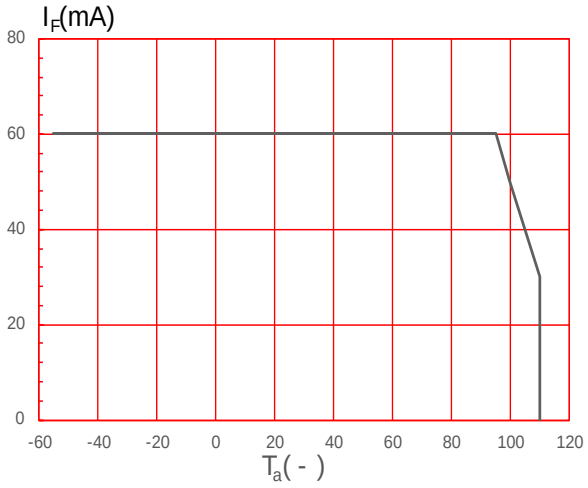


FIG.2: On-state Terminal Current vs. Ambient Temperature

TEST CIRCUITS

FIG.12: Test Circuits of Turn On Time

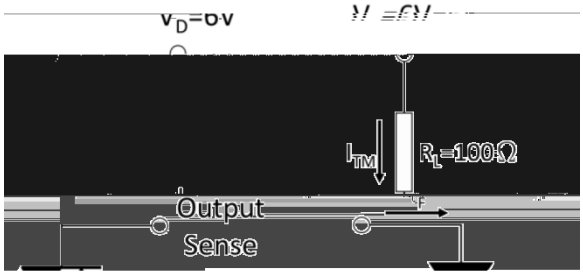


FIG.13: Waveforms of Turn On Time

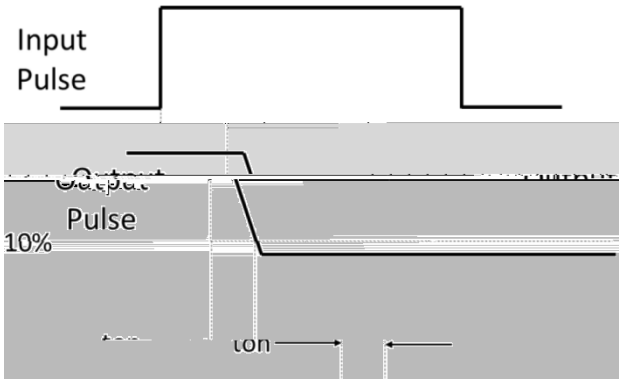


Fig.14: Test Circuits of dV/dt

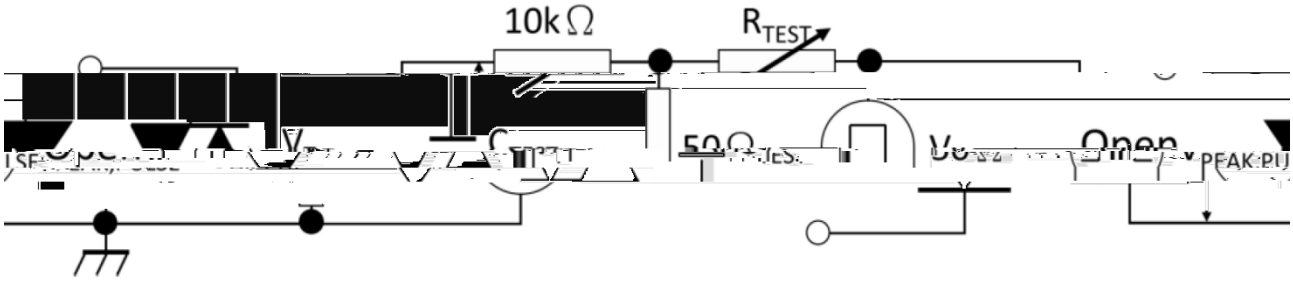
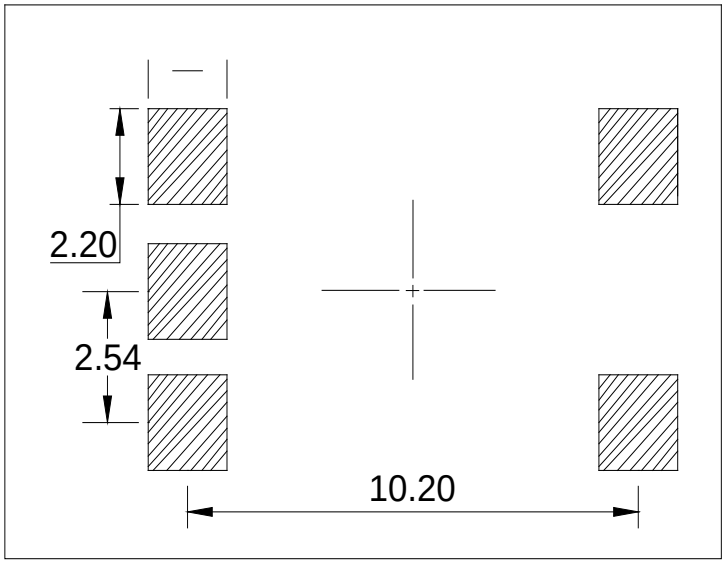
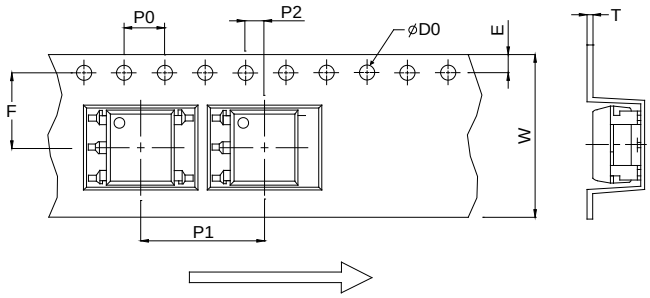


Fig.15: Waveforms of dV/dt

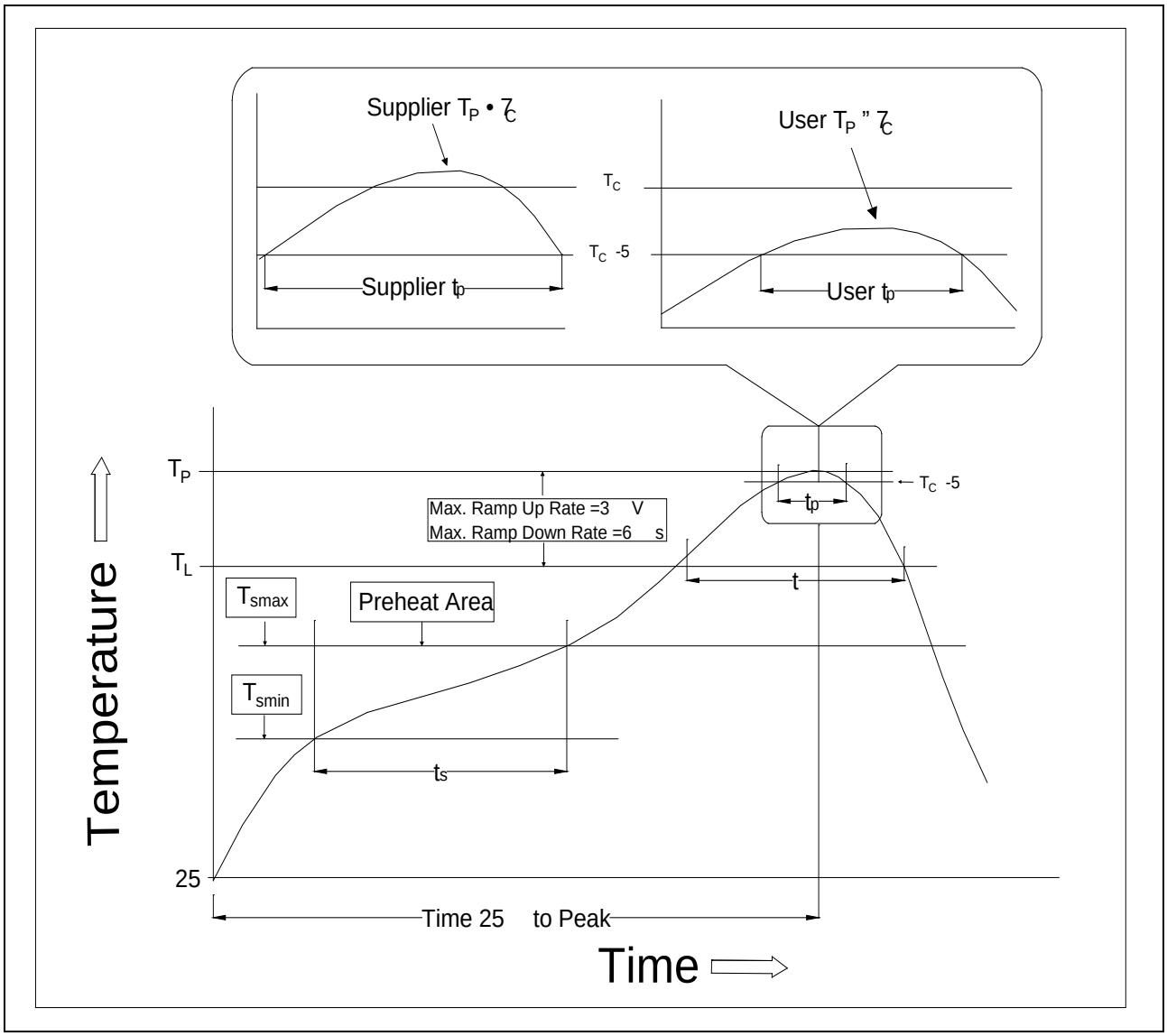
Option SL



CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

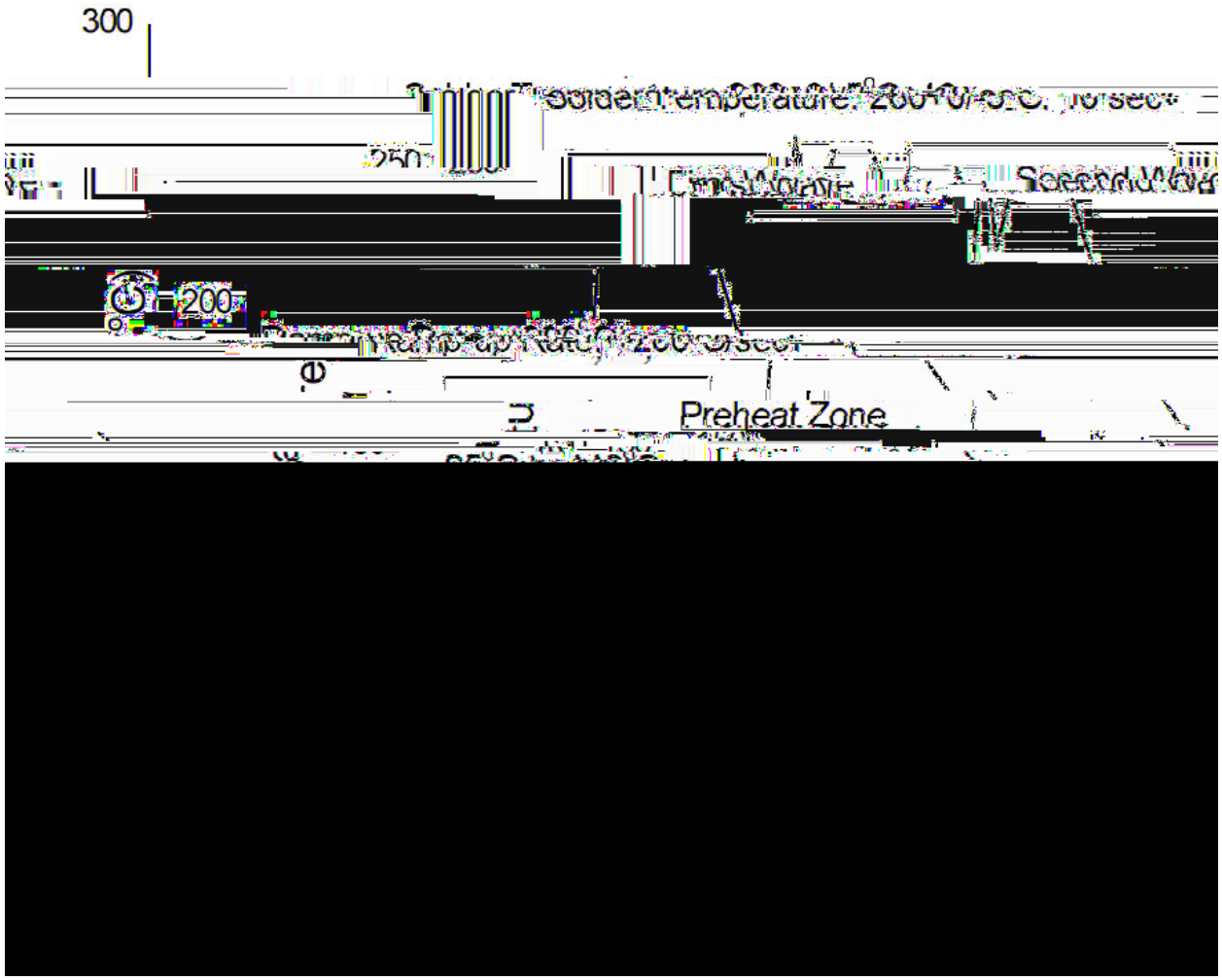


REFLOW INFORMATION



Profile Feature	Sn-Pb Assembly Profile	Pb-Free Assembly Profile

WAVE SOLDERING



HANDSOLDERING 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 S&SLM package

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