JORX223 Series

Rev.A.1.0

DESCRIPTION:

The products are 7-pin solid-state relay opto-couplers. The device combines an AlGaAs infrared emitting diode as the emitter which is optically coupled to a monolithic silicon random-phase photo triac to drive a power triac in a plastic DIP7 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 to 265 V_{AC} peripherals.

MAIN FEATURES:

High isolation 5000 Vrms
DC input with triac output
Operating temperature range - 40°C to 110 °C
REACH & RoHS compliance
HBM: H3B; MM: M4; CDM:C3
CQC approved
VDE approved
UL approved

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

Parameter		Symbol	Value	Unit
Input	Forward Current	I_F	50	mA
	Peak Forward Current	I_{FP}	1	A
	OR 0 Tw 1.497 0 Td49			

Holding Current

FIG.7: On-state characteristics

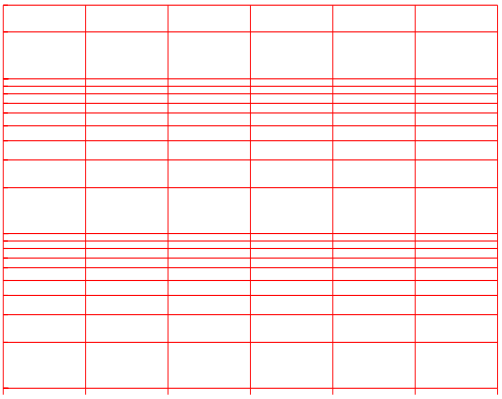


FIG.8: Normalized Holding Current vs. Ambient Temperature

TEST CIRCUITS

FIG.10: Test Circuits of Turn On Time

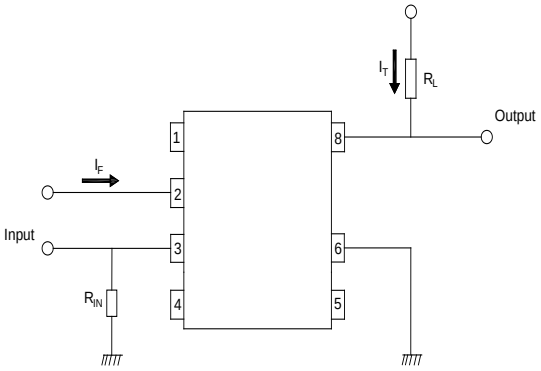
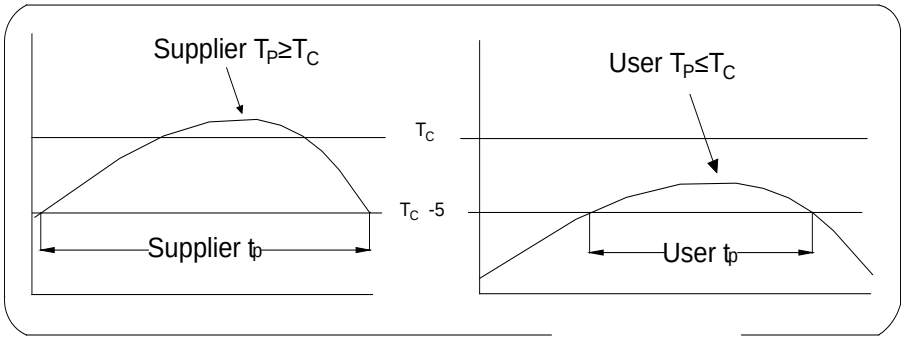


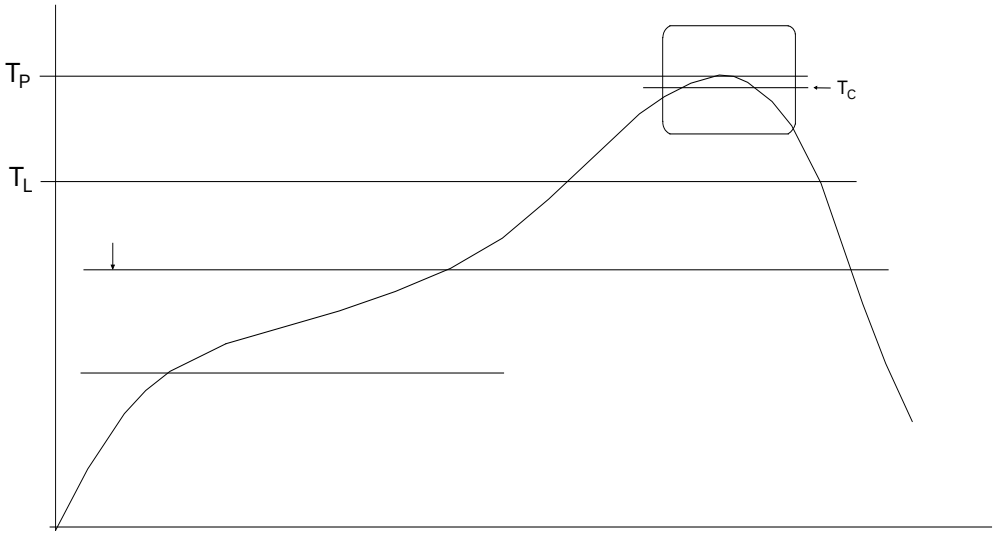
FIG.11: Waveforms of Turn On Time

RECOMMENDED SOLDER MASK (5Tm()JT)3 1 Tw[(E)(R)2(M)(A)2 MA

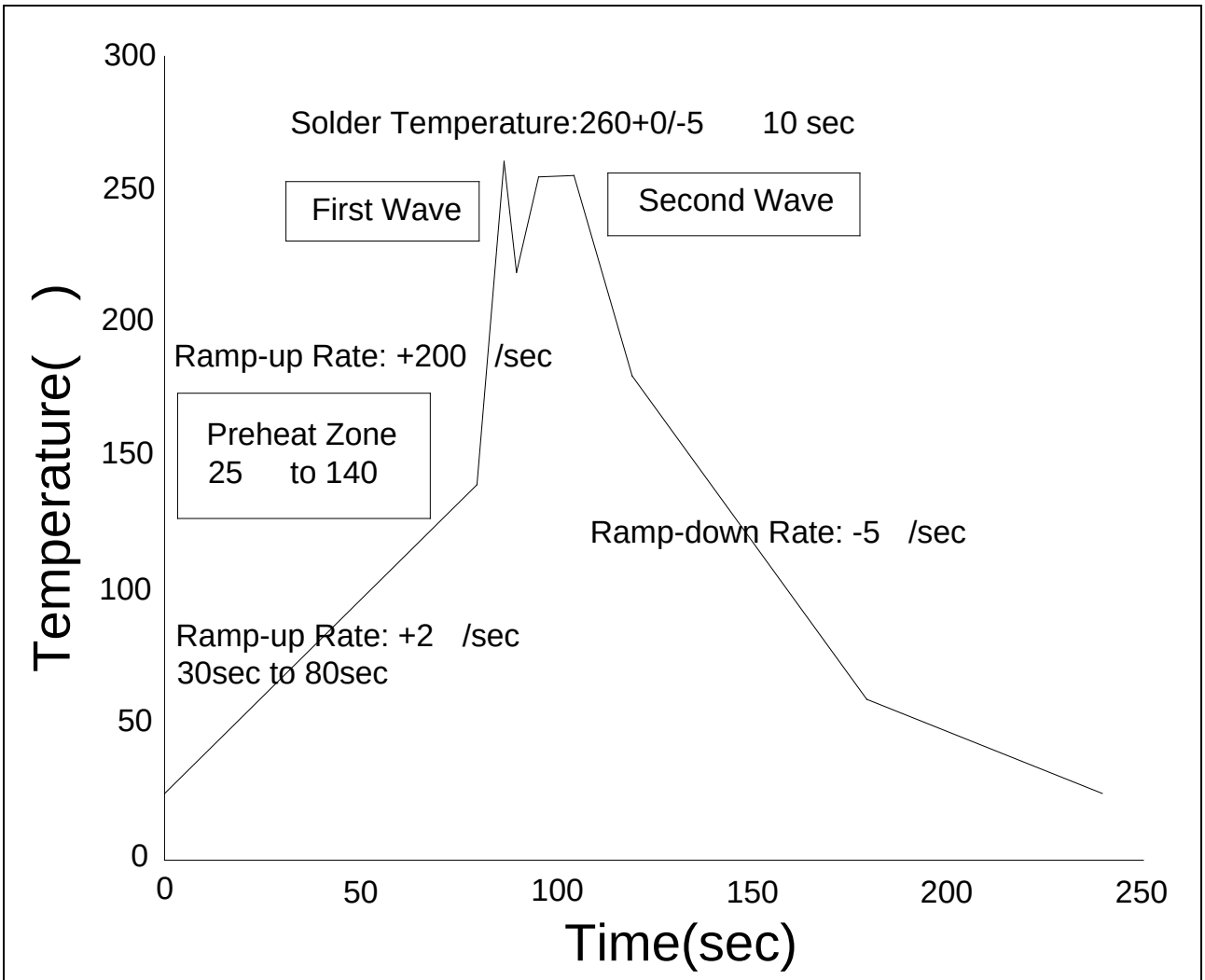
JORX223

REFLOW INFORMATION





WAVE SOLDERING



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

Note:

1. Reflow soldering is recommended at the temperatures and times shown, no more than three times.

2. Avoid direct contact between the epoxy body and any tools or surfaces exceeding its maximum storage temperature.

3. Application of pressure on the epoxy body is prohibited at elevated temperatures. In specific scenarios, any applied force must not exceed 2.5N.

4. Ensure the component has cooled to ambient temperature before proceeding with any subsequent manufacturing steps.

5. The component has a shelf life of one year when stored under standard conditions.

6. Recommend storage Temp.: 0~40°C;

Recommend storage humidit5. 2 (i)-2.4 0 Tw [( )22( )5.7 .8(5.)-4 2 ( )]TJ(1 (0.831 Tw 0.28 0 T8(5.)(%; 0.834 0 T