JOC3H4X Series

Rev.A.1.0

DESCRIPTION:

The JOC3H4X series combine two AlGaAs infrared emitting diodes as the emitter which is optically coupled to a silicon planar phototransistor detector in a plastic SSOP4 package with the robust coplanar double mold structure, JOC3H4X series provide the most stable isolation feature. The products are widely used in switch mode power supplies, programmable controllers, household appliances, office equipment.

MAIN FEATURES

High isolation 3750 VRMS
CTR flexibility available see order information
AC input with transistor output
Operating temperature -55°C to 110°C
REACH compliance
Halogen free
MSL class 1

ABSOLUTE MAXIMUM RATINGS (Temperature=25°C)

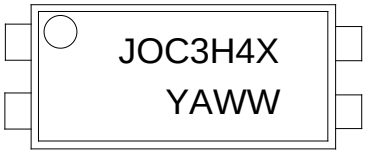
Parameter	Symbol	Value	Unit
Forward Current	I_F		
Input			

ELECTRICAL CHARACTERISTICS (Temperature=25°C)

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
Input	Forward Voltage	V_F	I_F=±10mA	-	1.24	1.4	V
			I_F=±20mA	-	1.28	1.5	
	Input Capacitance	C_{in}	V=0, f=1MHz	-	10	-	pF
Output	Collector-Emitter dark current	I_{CEO}	V_{CE}=20V, I_F=0	-	-	50	nA
	Collector-Emitter breakdown voltage	BV_{CEO}	I_C=0.1mA I_F=0	80	-	-	V
	Emitter-Collector breakdown voltage	BV_{ECO}	I_E=0.1mA I_F=0	6	-	-	V
	Current transfer ratio	CTR '	I_F=±1mA V_{CE}=5V	20	-	300	%
	Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_F=±20mA I_C= 1mA				

Transfer Characteristics

ORDERING AND MARKING INFORMATION

MARKING INFORMATION	
	JOC : Company Abbr. 3H4 : Part Number X: CTR Rank Y :

ORDERING INFORMATION
JOC3H4X(Z)-G
JOC– Company Abbr. 3H4– Part Number X– Rank (A/B/None) Z– Tape and Reel Option (/TT2) G– Green

Packing Quantity			
Option	Quantity	Quantity – Inner box	Quantity –Outer box

Test Circuits

FIG.11: Test Circuits of Response Time

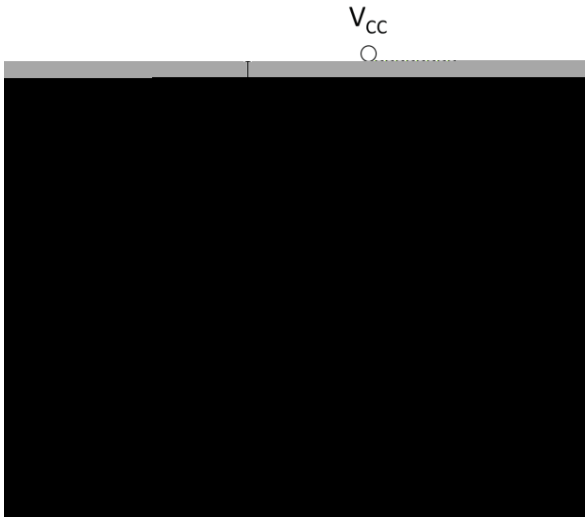
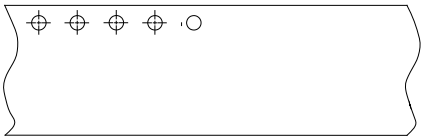


FIG.12: Curves of Response Time

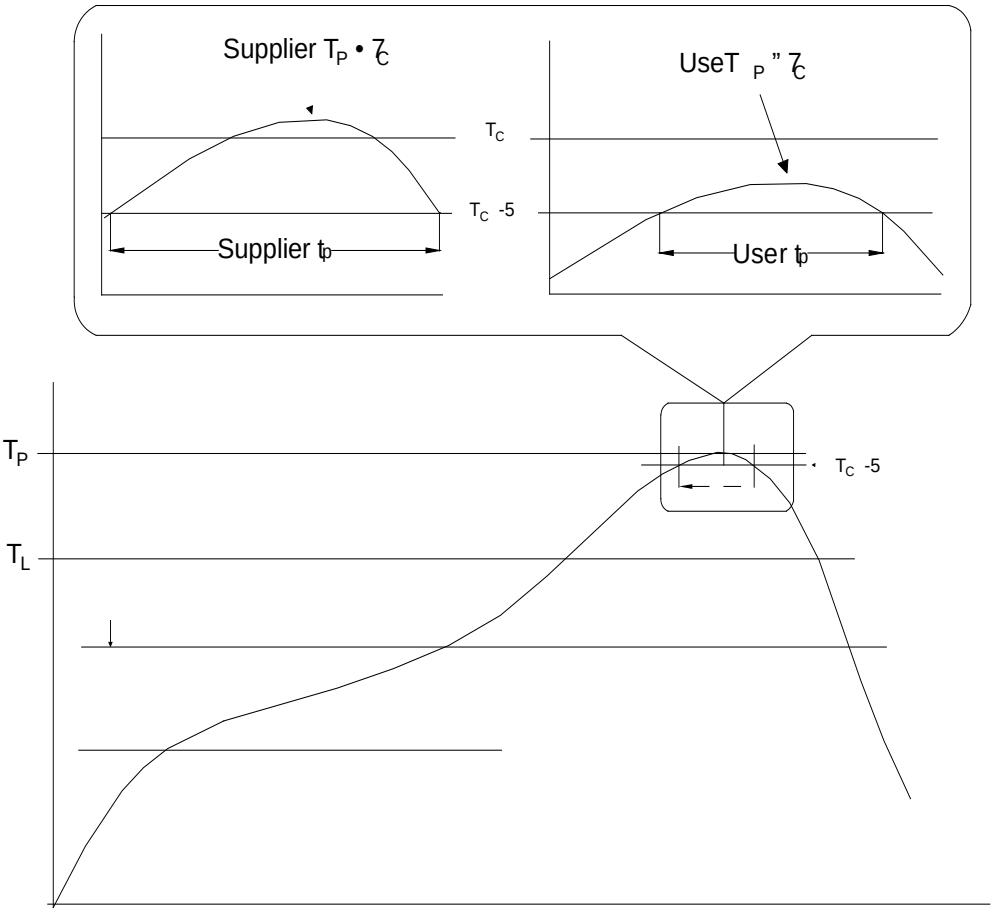
FIG.13: Test Circuits of Frequency Response

CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option T1



REFLOW INFORM-9.9-12CTION



Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of use without consideration for such information nor use beyond it. Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from its use.