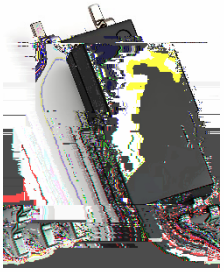
JOC314 Series

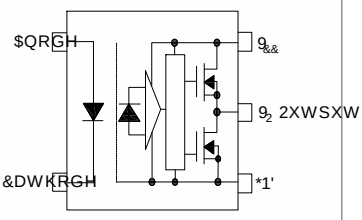
Rev.A.1.0

DESCRIPTION:

7KH SURGXFWV DUH SWRWRFRXSOLHUVU LQ
/623 : SDFNDJHV 7KH GHYLFH FRQVLV DUHG
/(' RSWLFDOO\ FRXHSOHG WR KLJK SHHG GHWHFWRU
SKRWRGHWHFWRUGH&V FKXLSU D,QWSHUHGY LS
DQG VSHFLILFDWLRQV DW WHPSHUDW ,W LV
VPDOOHU DQG FRPSOLDQW ZLWK LQW DIHW\
UHLQIRUFHG LQVXODWLRQ V\VWDWOKXWS O
IRU DSSOLFDWLRQV WKDW UHTXLUH V UG FHU
LQWHUQDO QRLGHVVDKJHKOGDSQWRH G FR
WUDQVLHQW LPPXQLW\ \LP GHD9 M%7V *
DQG SRZHU 026)(7 JDWH GULYH 7KH S ZLGHO
LQ LQGXVWULDO LQYHUWHUV ,*%7(JD.
LQGXFWLRQ FRRNWRS DQG KRPH DSSO







MAIN FEATURES

$ PD[LPXP SHDN RXWSXW FXUUHQW
+LJK LVRODWLRQ 9506
%XIIHU ORJLF W\SH
2SHUDWLQJ WHPSHUDWXUH UDQJH WR I&
5(\&+ 5R+6 FRPSOLDQFH
+%0 + $ 00 0 &'0 &
&4& DSSURYHG
9'(DSSURYHG
8/ DSSURYHG

Truth Table

/('	9&& 9(3RVLWLYH *	9&& 9(RLQ1JHJDWLYH *	RLQJ 2XWSXW
2))	9	9	/RZ
21	9	9	/RZ
21	9 9	9 9	75$16,7,21
21	9 9	9 9	+,*+

WUTA JSB8YOM

ABSOLUTE MAXIMUM RATINGS 7HPSHUDWXUH f &

Parameter		Symbol	Value	Unit
/('	)RUZDUG &XUUHQW	,)		
	3HDN)RUZDUG &XUUHQW	,)	[7]	$
	5HYHUVH 9ROWDJH	95		
	3RZHU 'LVVLSDWLRQ	3'		P:
'HWHFWRU	2XWSXW 9ROWDJH	2	9	
	6XSSO\ 9ROWDJH	9&&		
	3RZHU 'LVVLSDWLRQ	3&		P:
,VRODWLRQ 9ROWDJH		9LVR	[8]	9UPV

2 S B&ˆ"tï 6 X S S O \ ru‡ pS

	/RZ /HYHO 2XWSXW 9ROWDJH	9		9			9
	7KUHVKROG ,QSXW &XUUHQW	,		P$			
	7KUHVKROG ,QSXW 9ROWDJH	9		9			9
	6XSSO\ 9ROWDJH	9					
	89/2 7KUHVKROG	989/2	9 Ú 9 P$				9
		989/2	9 Ø 9 P$				9

SWITCHING SPECIFICATION

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
3URSDJDWLRQ 'HOD\ 7LPH WR +LJK 2XWSXW /HYHO	W	5 & Q) I N+] 'XW\ &\FOH) P$ 9 9				QV
3URSDJDWLRQ 'HOD\ 7LPH WR /RZ 2XWSXW /HYHO	W					
3XOVH :LGWK 'LVWRUWLRQ	W					
3URSDJDWLRQ 'HOD\ 'LIIHUHQFH %HWZHHQ $Q\ 7ZR 3DUWV	W / W					
2XWSXW 5LVH 7LPH	W	5 & Q)) : P$ 9 9				
2XWSXW)DOO 7LPH	W	5 & Q)) : P$ 9 9				
&RPPRQ 0RGH 7UDQVLHQW ,PPXQLW\ DW +LJK /HYHO 2XWSXW	&0	) P$ 9 9 7D 9 PLQ 9 9 9SS	“			N9 V
&RPPRQ 0RGH 7UDQVLHQW ,PPXQLW\ DW /RZ /HYHO 2XWSXW	&0	) P$ 9 9 7D 9 PD[9 9 9SS	“			N9 V

oo dÇ‰] o Àîõµ • š d

Note1 W /v‰µš •]Pv o ~(Aîñl,lU µšÇA›ñ]ì•9 Ud š•ŒšAZš (vA ññv•‰}&E ÁoZ]•• Z X]v ‰Œ} v •šŒ Ç Á]Œ]vP ‰]š v X

Note2 W ¸D]• šZ u Æ]uµu Œ š }((oo }(šZ }uu}v u µ• š À]v o š Á]š Z šZ }µš‰µš À}oš P]v šZ Úõ]P]• X Z]P Z •š š ~sK

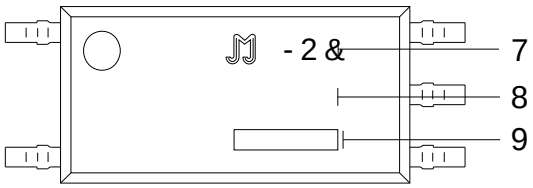
Note3 W D>]• šZ u Æ]uµu Œ š }(Œ]• }(šZ }uu}v u} À}o

Recommended Operating Conditions[7][8]

Characteristics	Symbol	Min.	Typ.	Max.	Unit
,QSXW 2Q VWDWH ,&&UUHQW					P$
,QSXW 2II VWDWH 9RROWDJH			9		

6XSSO\ 9ROWDJH 9&&

ORDERING AND MARKING INFORMATION

MARKING INFORMATION	
	7 &RPSDQ\ $EEU 8 3DUW 1XPEHU 5DQN 9 W3URGXFWLRQ ,QIRUPDWLRQ &RG

Packing Quantity			
Option	**Quantity**	**Quantity – Inner box**	**Quantity –Outer box**
>^KWñ	ïìì ì hv]š•lZ o î Z	o•l/vv Œ }Æ ïìlñh/w]vš•Œ } A	

Characteristics Curves

FIG.1:)RUZDUG &XUUHQW YV)RUZDUG 9ROWDJH

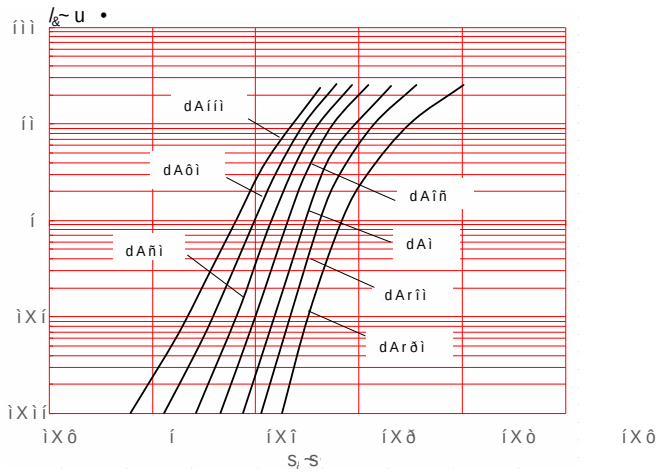


FIG.2: 5HODWDWLYH /(')RUZDUG YV $PELHQW 7HPSHUDWXUH

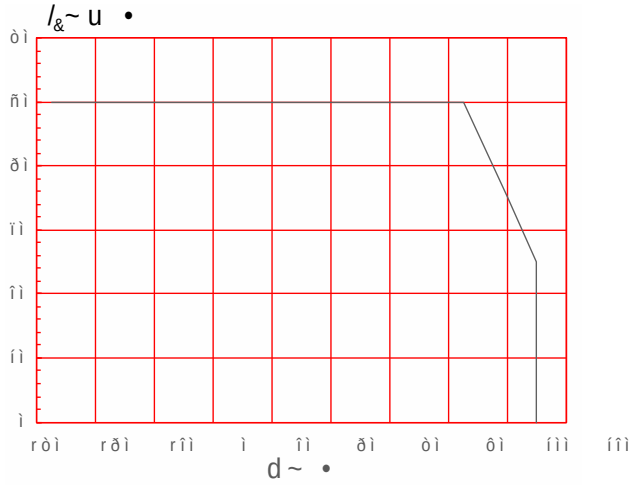


FIG.3: &RROHFWRU 3RZHU 'LVVLSDWLRQ YV $PELHQW 7HPSHUDWXUH

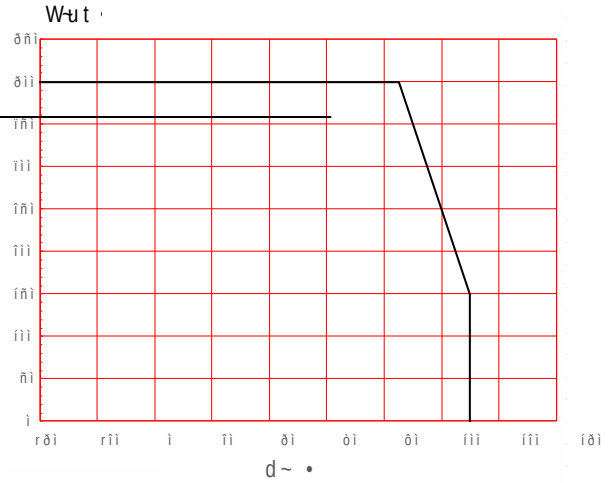


FIG.4: 7KUHVKROG ,QSXW &XUUHQW YV $PELHQW 7HPSHUDWXUH

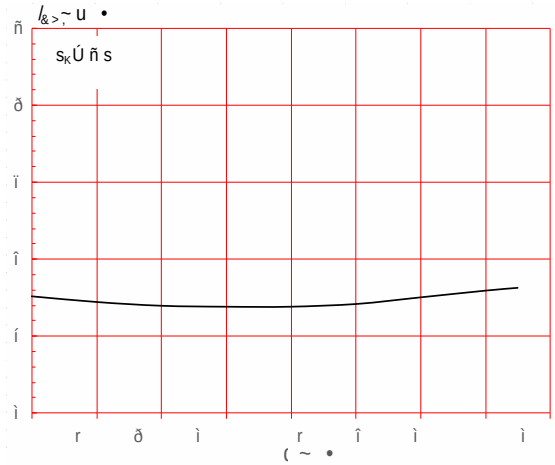


FIG.5: /RZ OHYHO 6XSSO\ &XUUHQW YV $PELHQW 7HPSHUDWXUH

FIG.6: 3HUIRUPDQFH YV $PELHQW 7HPSHUDWXUH

Package Dimension (Unit: mm)

LSOP5

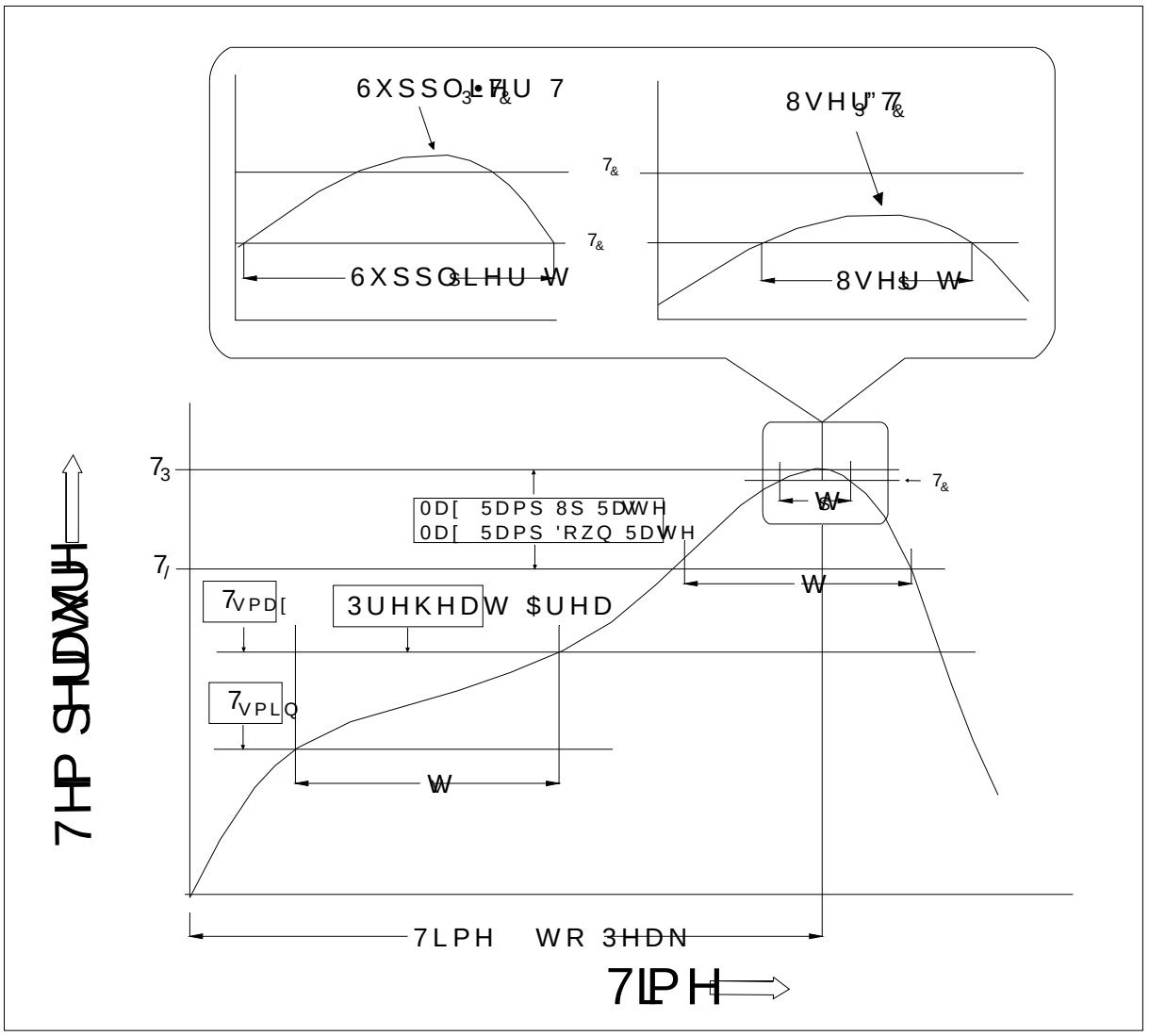


RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

LSOP5



REFLOW INFORMATION



Profile Feature	Sn-Pb Assembly Profile	Pb-Free Assembly Profile
7HPSHUDWXUH 0LQ	7VPLQ	
7HPSHUDWXUH 0D[	7VPD[	
7LPH WV IURP 7VPLQ WR 7VPD[	VHFRQGV	VHFRQGV
5DPS XS 5DWH W/ WR WV3	VHFRQG PD[	VHFRQG PD[
/LTXLGXV 7HPSHUDWXUH 7/		
7LPH W/ 0DLQWDLQHG $ERYH 7/	VHFRQGV	VHFRQGV
3HDN %RG\ 3DFNDJH	7HPSHUDWXUH	
7LPH W3 ZLWKLQ	VHFRQGV	VHFRQGV
5DPS GRZQ 5DWH	73 WR 7/ VHFRQG	VHFRQG
7LPH WR 3HDN 7HPSHUDWXUH		PLQXWHV PD[

1RWH

5HIORZ VROGHULQJ LV UHFRPPHQGHG DVWKRZQH QWRHPSRUHDWWKDQHWR

$YRLG GLUHFW FRQWDFWRQ[DHQGRQWRDQ[DHQGRQWRXUDFRHV H[FHHGLQJ LWV PD
VWRUDJH WHPSHUDWXUH

$SSOLFDWLRQ RKHSUHSRV[XERGRKQLWLSOHGDWHG WHPSHUDWXUHV ,Q V
VFHQDULRV DQHDPSXOLQGRWRHFFHHG 1

(QVXUH WKH FRPSRQHQW KDV FRROHG VUDFPEHWKQQQZLXPSHUDXHQ
PDQXIDFWXULQJ VWHSV

7KH FRPSRQHQW HKDV BQVHKHOLZKHQ VWRUHG XQGHU S U

g M