



JOCSR21X,JOCSR31X-D6P/S Series

Rev.A.1.0

^ Z/Wd/KEW

7KH SURGXFWV DUH SLQ WK\ULVWRU RSWR FRXSOHUV 7K
FRPELQHV DQ \$,*HPLWQWUQJGGRGH DV WKH HPLWWHU
ZKLFK LV RSWLFDOR\QRRSLXKLG WRODFRQ UDQGGRP SKDVH
SKRWR WULDF LQSDFNODMVLWK3GLIQUHQW OHDG IRUPL
RSWLRQV :LWK WQHDWGRXVDFPSROG VWUXFWXUH
WKH GHYLFH SURYWDGEOHWKVRDOWLRQ IHDWXUH 7KH
SURGXFVV DUH ZLGHO\ XVHG LQ VROHQRLG YDOYH FRQWU
FRQWUROV PRWRU FRQWUROV WHPSHUDWXUH FRQWUROV
VZLWFKHV VROLQWWDWFLQHOPDFWRLSURFHVVURUV XS WR
9& SHULSKHUDOV

D /E & dhZ ^

+LJK LVRODWL500

'& LQSW ZLWK UDQGRP SKDVH SKRWR WULDF RXWSXW

2SHUDWLQDWXLP5WQJH - ZU -

5(\$&+ 5R+6 FRPSOLDQFH

+%0 + \$ 00 0 &'0 &

&4& DSSURYHG

9'(DSSURYHG

8/ DSSURYHG

^K>hd D y/DhD Z7HESHUDWXUH f &

Parameter		Symbol	Value	Unit
,QSW	)RUZDUG &XUHQW)			
	3HDN)RUZDUG &XUHQW)3		7	\$
	5HYHUVH 9ROWDJH 95			
	3RZHU 'LVVLSDWLRQ 3			
2XWSXW	2II VWDWH 2XWSXW 7HUPLOD5 ; 9ROWDJH 92))			9
		- 2 & 65 ;		
	3HDN 2QIVWDWH &XUHQW V SXOVH SSV ,73			
	2Q VWDWH 506 &XUHQW,7 506			P\$
	3HDN 5HSHWLWLYH 6XUJH &XUHQW P3 ,760			
	2XWSXW 3RZHU 'LVVLSDWL2RQ			P:

7RWDO 3RZHU 'LVVLSDWL RQ	3WRW		P :
,VRODWL RQ 9ROWDJH	9LVR	8	9UPV
2SHUDWLQJ 7HPSHUDWXUH	7RSU	a	
-XQFWL RQ 7HPSHUDWXUH	7M		
6WRUDJH 7HPSHUDWXUH	7VWJ	a	
6ROGHULQJ 7HPSHUDWXUH	7VRO		
3HDN SXOVH YROWDJH 7M QRQ UHSHWLWLYH RII VWDWH	9SS		

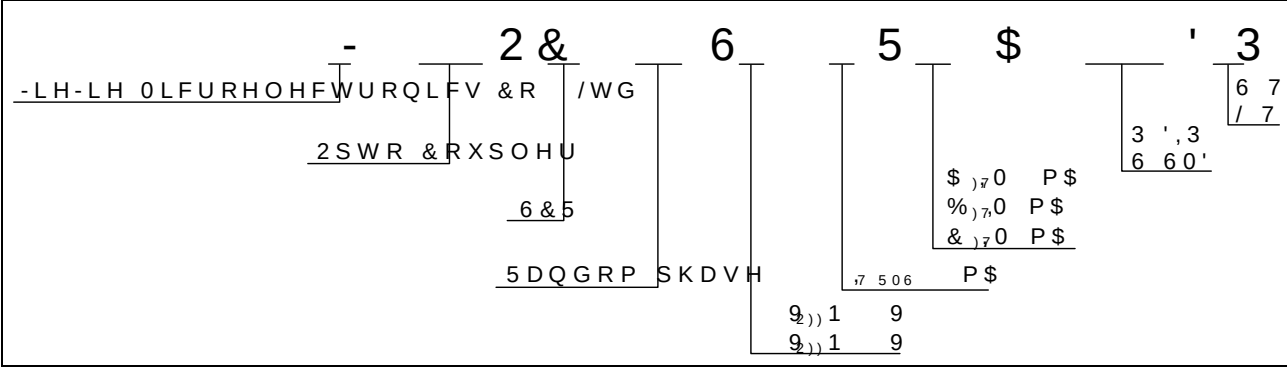
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Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
,QSW	)RUZDUG 9ROWDJH		) P\$	,			9
	5HYHUVH &XUUHQW		5 9	9			\$
	,QSW &DSDFLWDQFH		9 I &N+]				S)
2XWSXW	3HDN 2II VWDWH &XUUHQW (LWKHU 'LUHFWL RQ		92)) 5DWHG 9			9	Q\$
	3HDN 2Q VWDWH 9ROWDJH (LWKHU 'LUHFWL RQ		70 P\$,				9
	&ULWLFDO 5DWH RII 59LVH 5DWHG 9 RII 2II VWDWH YROWDJH		59LVH 5DWHG 9				9 V
7UDQVIHU &KDUDFWHULVWLFV	/(' 7ULJJHU &XUUHQW	-2&65 \$	)7	7HUPLODO 9ROWDJH 9			P\$
		-2&65 \$					
		-2&65 %					
		-2&65 %					
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		-2&65 &					
	+ROGLQJ &XUUHQW		70 P\$				\$
	,VRODWL RQ 5HVSRQVH		9				
	)ORDWLQJ &DSDFLWDQFH		9 I 0+]				S)
	5HVSQVH 7LPH WQ		9 9				V

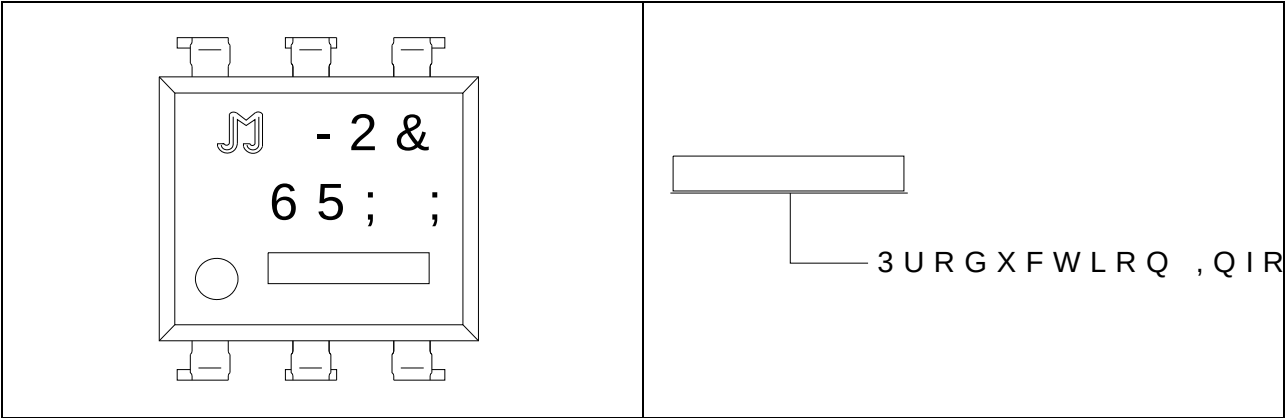
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KZ Z/E' /E&KZD d/KE



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FIG.1: 0D[\$OORZDEOH /(')RUZDUG \$PELHQW 7HPSHUDWXUH

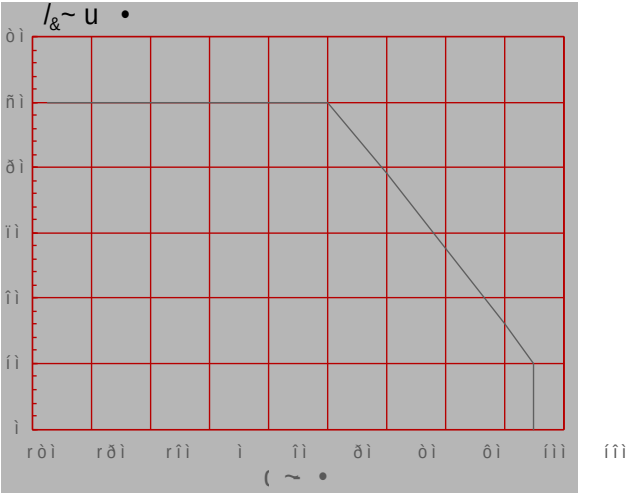


FIG.2: 2HQQVWDWH 7HUPLQDO &XUUHQ 7HPSHUDWXUH

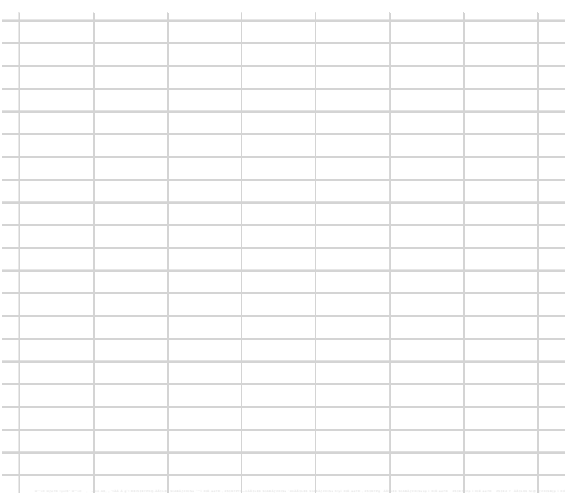


FIG.7: 1RUPDOLJHG 2HQ VWQDWH9ROWD 7HUPLQDO 9ROWD. \$PELHQW 7HPSHUDWXUH

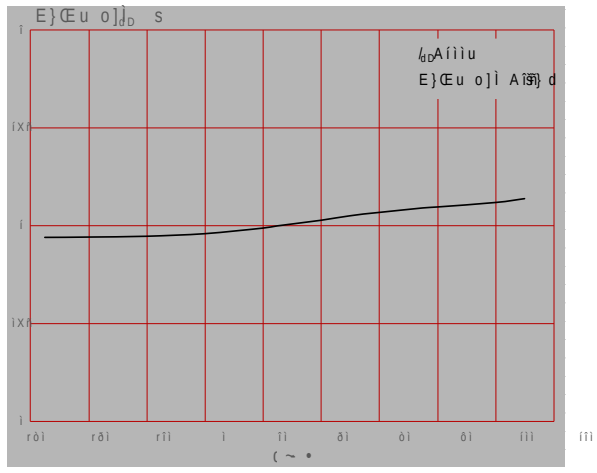


FIG.8: 1RUPDOLJHG 2HQ VWQDWH 7HUPLQDO 9ROWD. \$PELHQW 7HPSHUDWXUH

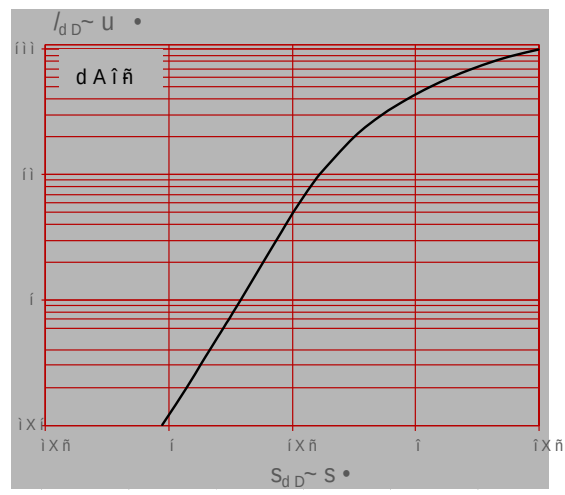


FIG.9: 1RUPDOLJHG +ROGLQJ &XUUHQW 7HPSHUDWXUH

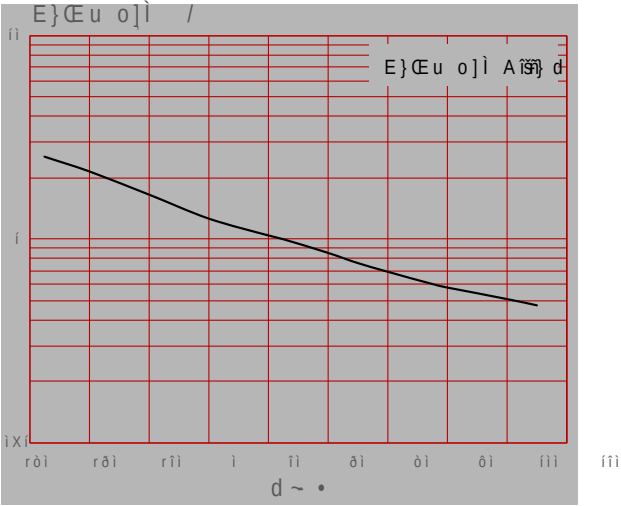


FIG.10: 1RUPDOLJHG 2HQ VWQDWH 7HUPLQDO 9ROWD. \$PELHQW 7HPSHUDWXUH

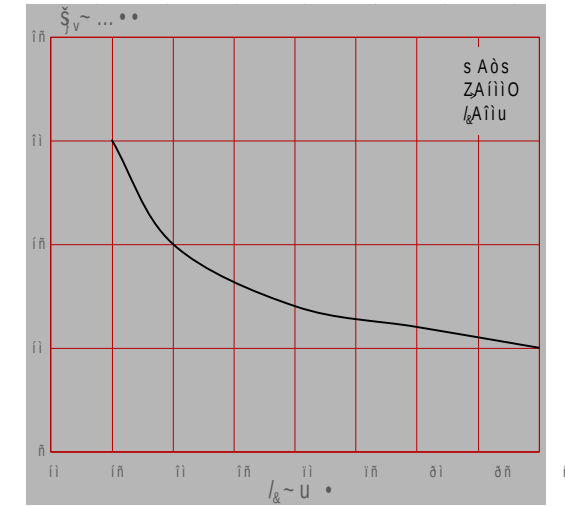


FIG.11: 1RUPDOLJHG 7XUQ 2Q 7LPH YV \$PELHQW 7HPSHUDWXUH

$d \wedge d / Z h / d \wedge$

FIG.12: 7HVW &LUFXLWV RI 7XUQ 2Q 7LPH FIG.13: :DYHIRUPV RI 7XUQ 2Q 7LPH

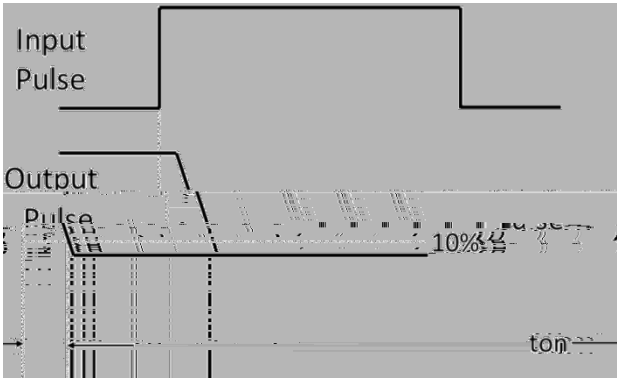
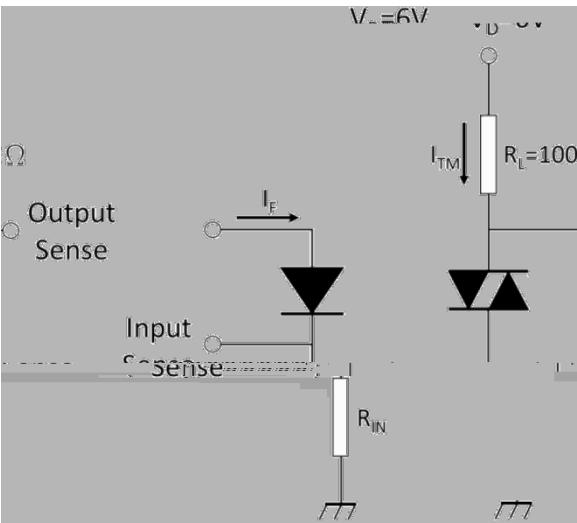


Fig.14: Test Circuits of dV/dt

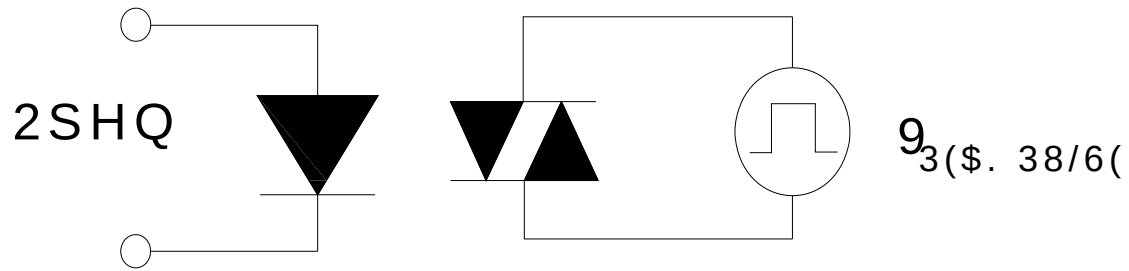
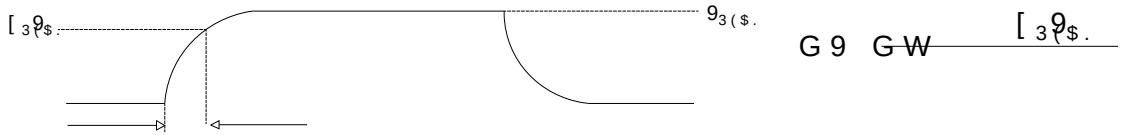


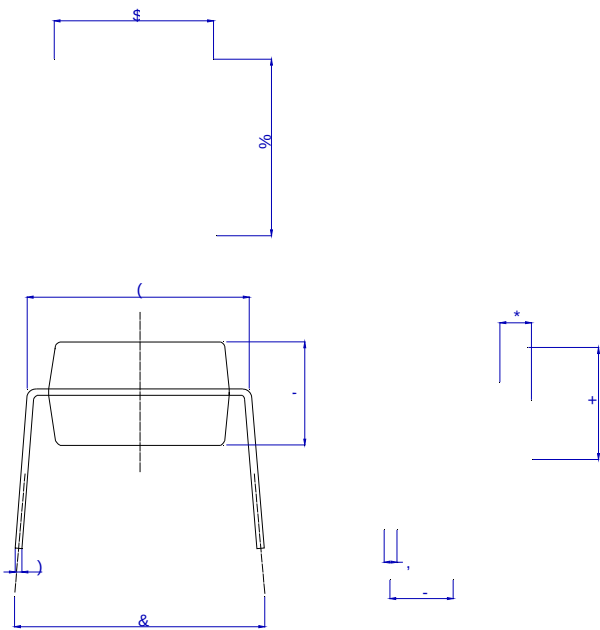
Fig.15: Waveforms of dV/dt



JOC SR21X, JOC SR31X

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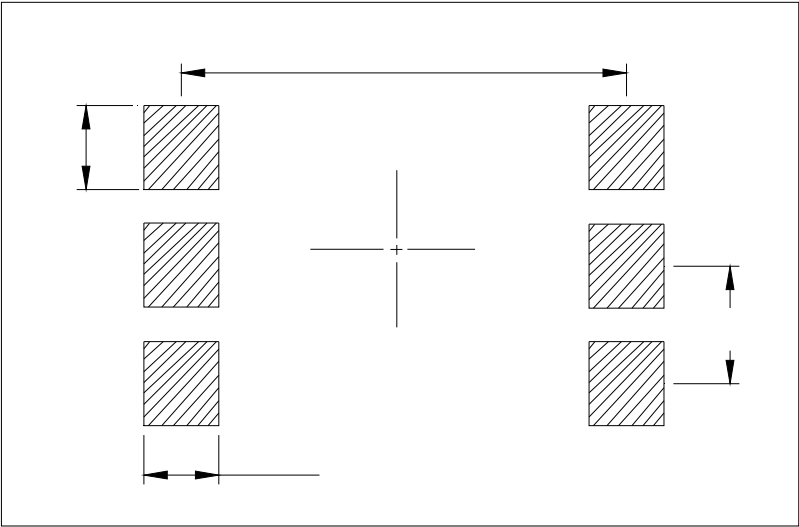
Standard DIP Type:



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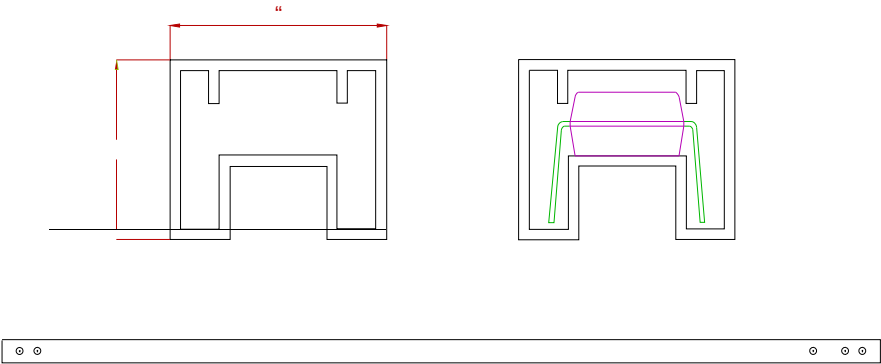
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Option SMD



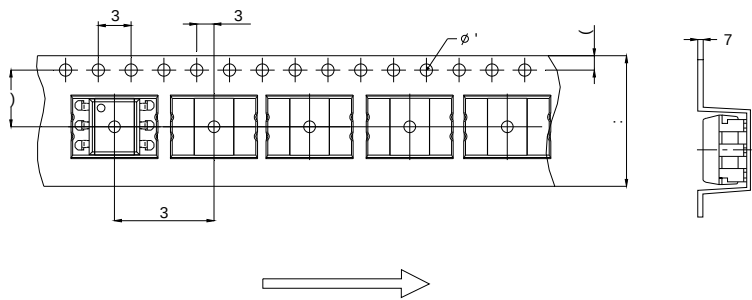
d h ^ W / & / d / K E ^ ~] u v •] } v •] v u u μ v o • • } š Z Ĉ Á] •

Standard DIP



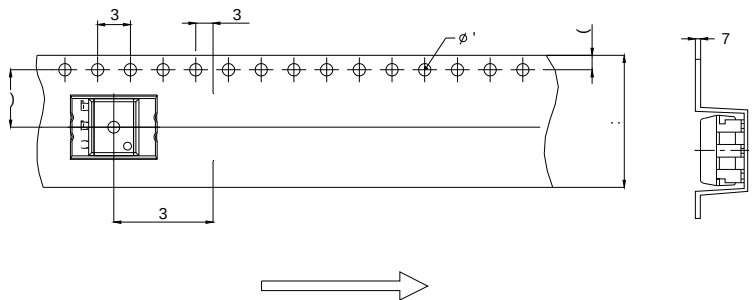
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Option S



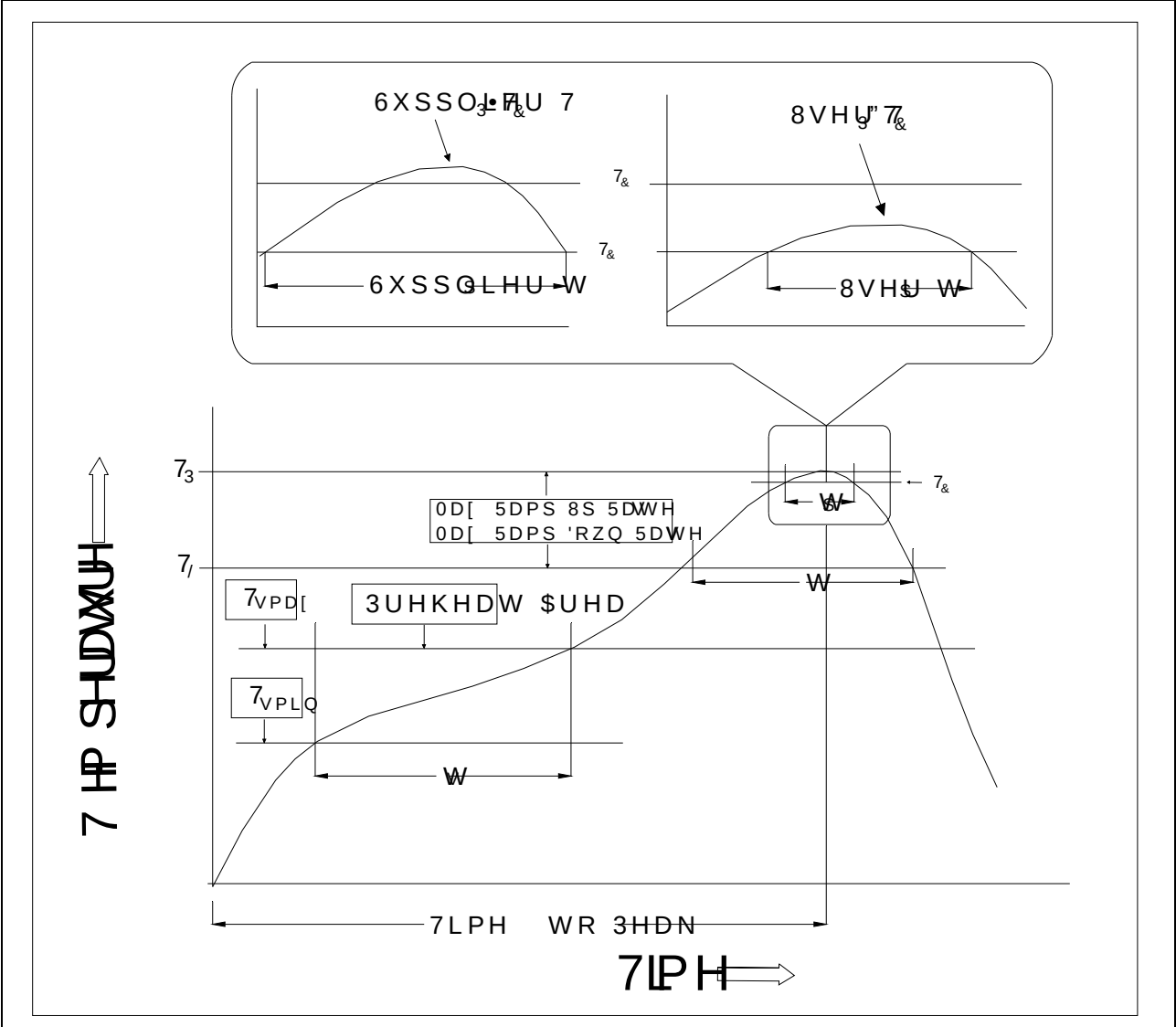
5 HI	'LPHQVLRQV					
	0LOOLPHWHUV ,QFKHV					
	0LQ	7\ S	0D[	0LQ	7\ S	0D[
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Option L



5 HI	'LPHQVLRQV					
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Profile Feature	Sn-Pb Assembly Profile	Pb-Free Assembly Profile
7HP SHUDWXUH 0LQ	7VPLQ	
7HP SHUDWXUH 0D[	7VPD[	
7LPH WV IURP 7VPLQ WR 7VPD[		VHFRQG G V
5DPS XS 5DWH W/ WR W	VHFRQG PD[	VHFRQG PD[
/LTXLGXV 7HP SHUDWXUH 7/		
7LPH W/ 0DLQWDLQHG \$ERYH 7/		VHFRQG G V
3HDN %RG\ 3DFNDJH 7HP SHUDWXUH		
7LPH W3 ZLWK LQ	VHFRQG G V	VHFRQG G V
5DPS GRZQ 5DWH 73 WR 7/	VHFRQG	VHFRQG
7LPH WR 3HDN 7HP SHUDWXUH	PLQXW HV PD[	PLQXW HV PD[



1RWH

5HIORZ VROGHULQJ LV UHFRPPHQGHG DWKZQH QHPSHWDWWDQWWDQ
 \$YRLG GLUHFV FRQWHDVSRPHQZDQVWRUDFRU H[FHHGLQJ LWV PD
 VWRUDJH WHPSHUDWXUH

\$SSOLFDWLRQ RKHSHSRVXERQQLWLSOHGDDWHG WHPSHUDWXUHV ,QV
 VFHQDULRV DQHPSVWLQQRWRHFFHHG 1

(QVXUH WKH FRPSRQHGW KDV FRROHG WRDFHFWLQDQVWRUDWWDQ
 PDQXIDFWXULQJ VWHSV

7KH FRPSRQHGW KDV BQKHDDWZKHQVWRQGHGKFRQGLWLRQV

5HFRPPHQG VWRUDJH 7HPS a f&

5HFRPPHQG VWRUDJH KXPLGLW\

06/ OHYHO 06/

,QIRUPDWLRQ IXUQXPHQW LQ WKOLHGYMB DQGEUHDQFLDYLDDH +R
 -LDQJVV -LH-LH 0LRRHOWHWDVQXLFHVQLVUHVSRQVHLERQVHT
 RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG VWFKQLQIRUPDWLRQ
 LQ WKLV GRFXPHQWLDQJYXZLWHFRVWRQRWLFH DSDUW IURP V
 VLJQHG -LDQJVSOLHVLZLWRKPWKH DJUHHPHQW

3URGXFVV DQG LQIRUPDWLRQ SURYLGHGLQJHMQWVRGSRXPH
 -LDQJVV -LH-LH DVVXPHLOQV\UHVSRQVLQULQJHPPHQW RI RW
 ZKLFK PD\ UHVXOW IURP WKH XVH RI VFKLVSURFXPHQWVQSHL
 DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXVO\ VXSSOLHG



LV D UHJLVWHUHGQJDXGLHDUNRUFURHOWHFWURQLFV &R
 &RS\UKJKW -LDQJVV -LH-LH 0LVRRHOWHFWURQLFGLJKWV UHVH