

ABSOLUTE MAXIMUM RATINGS 7HP SHUDWXUH *f &*

/('	)RUZDUG &XUUHQW	,)		
	3HDN)RUZDUG &XUUHQW	3	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
2SHUDWLQJ 7HPSHUDWXUH		7RSU	a	
-XQFWLRQ 7HPSHUDWXUH		7M		
6WRUDJH 7HPSHUDWXUH		7VWJ	a	
7RWDO 3RZHU 'LVVLSDWLRQ		3WRW		P :
6ROGHULQJ 7HPSHUDWXUH		7VRO		

NOTE1 $\dot{m} \cdot \mu_o \cdot U_{\dot{m}, \dot{m}} (\text{kg} \cdot \text{m} \cdot \text{s}^{-1})$

NOTE2 (}Œ íu]vμš U ZX,XAđì•òì9

ELECTRICAL CHARACTERISTICS 7HP SHUDWXUH *f* &

, Q S X W	) R U Z D U G 9 R O W D J H)	) P \$	,				9	
	5 H Y H U V H & X U U H Q W ,5	5 9	9				\$	
	7 H U P L Q D O & D S D F L W D Q F H 9 I 0 +4						S)	
2 X W S X W	3 H D N + L J K O H Y H O 2 X W S X W & X U U H Q W	9 2 9 & 9					\$	
		3 X O V H Z L G W K " V						
		9 2 9 & 9					\$	
	3 X O V H Z L G W K " V							
	3 H D N / R Z O H Y H O 2 X W S X W & X U U H Q W	9 2 9 ((9						\$
		3 X O V H Z L G W K " V						
		9 2 9 ((9						\$
	3 X O V H Z L G W K " V							
+ L J K / H Y H O 6 X S S O \ & X U U H Q W 9	) P \$					P \$		
/ R Z / H Y H O 6 X S S O \ & X U U H Q W 9	9 2 2 S H Q							
	) P \$						P \$	
		9 2 2 S H Q						



	+LJK /HYHO 2XWSXW	9ROWD	JH9	9			9
	/RZ /HYHO 2XWSXW	9ROWD	JHP\$	9			9
	7KUHVKROG ,QSXW	9XU	9H9	,			P\$
	7KUHVKROG ,QSXW	9ROWD	JH9	9			9
	6XSSO\ 9ROWD	JH	9&&				9
	89/2 7KUHVKROG	989/2	92Ú 9				9
		989/2	92Ø 9				9

SWITCHING SPECIFICATION

3URSDJDWLRQ 'HOD\ 7LPH WR	W+	5J	&J Q)			
+LJK 2XWSXW /HYHO		9&& 9	9			
3URSDJDWLRQ 'HOD\ 7LPH WR	W4/	5J	&J Q)			
/RZ 2XWSXW /HYHO		9&& 9	9			
3URSDJDWLRQ 'HOD\ 'LIHUHQFH	W4/ 3W	5J	&J Q)			
%HWZHHQ \$Q\ 7ZR 3DUW		9&& 9	9			
2XWSXW 5LVH 7LPH	WR	5J	&J Q)			
		9&& 9	9			
2XWSXW)DOO 7LPH	WR	5J	&J Q)			
		9&& 9	9			
&RPPRQ 0RGH 7UDQVLHQW	9&& 9	9&& 9	9			
,PPXQLW\ DW +LJK /HYHO 2XWSXW	9&& 9	9&& 9	9			
		9&& 9	9			



&RPPRQ 0RGH 7UDQVLHQW ,PPXQLW\ DW /RZ /HYHO 2XWSXW	9&& 9 7D 92 PD[9 9&0 9SS	“			N9 V
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o o d Ç%] o Àîðµ • š d

Note1 W /v%µš •]Pv o ~(Aîñl, ìU µšÇAñ]i•9 b š•CEŠAZŠ (vA ññv •%o} &E ÁoZ } •Z X] v
%oCE} v •šCE Ç Á]CE]vP %o]š v X

Note2 W ,D]• šZ u Æ]uµu Æ š }((oo }(šZ }uu}v uµ•š À}yoš Á]š Ž
šZ }µš%µš À}oš P]v šZ ÚóðB}XZ]PZ •š š ~sK

Note3 W D>]• šZ u Æ]uµu Æ š }(Æ]• }(ŠZ v }u uµvš u]v Ä]š
šZ }µš%µš À}oš P]v šZ ØóšPX] o}Á •š š ~sK

Recommended Operating Conditions⁷⁸

,QSXW 2Q VWDWH, &X ⁹ UUHQW					P\$
,QSXW 2II VWDWH ,9R,OWDJH 9					
6XSSO\ 9ROWDJH 9&&					9
2SHUDWLQJ)UHTXHQFV					N+]

Note1 W dZ Æ }uu v }%o Æ š]vP }v]š]}v} Æ P]•À ÆÇ •š} } š]Pw
]vš v %o Æ({ Æu v }(šZ À] X Zv %ov ÆE Àu ošµ Æ]z w]Æ %o]
•Ç •š u •]Pv µ•]vP ŠŠZ]•o Ä]CE]U o Z•Æ š]CE]}š]šZ]š •ž}µo o•}
}v•] Æ X

Note2 W Æ u] %o]š} Æ~ìXí... &• •Z}µo s }vvv š%o]v ŠÖÁ ~VE %o]š
•š]o]ì šZ }%o Æ B]]v p]v ZEP Zr%o o]([ÆX KšZ ÆÁ]• U šZ]• %o Z
%o Æ}%o ÆoÇX dZ Ç]µo•• %o o]š} Æ]šZ]v í%o]v X(
Note3 W dZ Æ]• v (oo š]u • }(šZ]v%µšZ}vrið Æ Æ •XŠ •Z}µo

Note4 W /(šZ Æ]•]vP •o}%o }(šZ (}P%o%ZoÇ Ä}oš} Æ]~s•š %o U •š o
]vš Æv o]Æ µ]š• všv}š Pµ Æ Æ š} • š ĭ sl... } Æ o •• X} Æ Æ]•

Note5 W v}š • šZ }%o Æ]š]šZ ÆEvP]u v }%o]Æ]š]XvP }

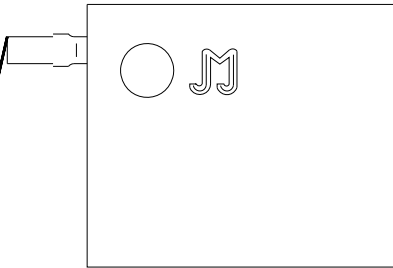


ORDERING INFORMATION

-	2	&	'	\$	\$	%
-LH-LH 0LFURHOHFWURQLFV &R /WG	1RQH 7					
2SWR &RXSOHU	5 7					
'ULYHU	6 2 3					
+LJK VLGH 30 26	8 9 / 2 9					
	7 5 0 6					
	\$					

Packing Quantity	
Option	Quantity
E}v IZ	ïïïï hv]š•IZ o

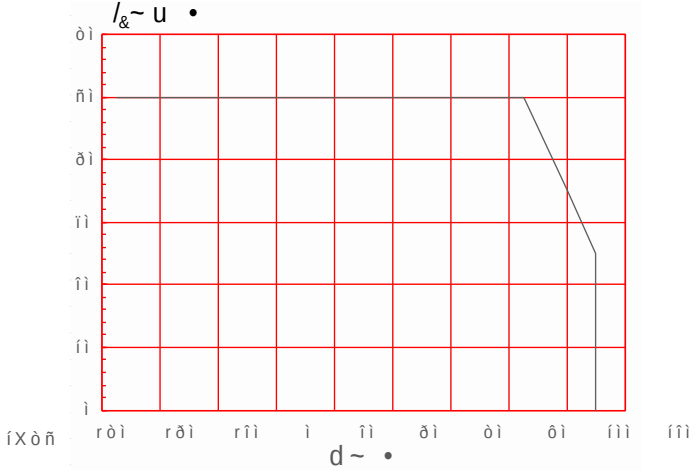
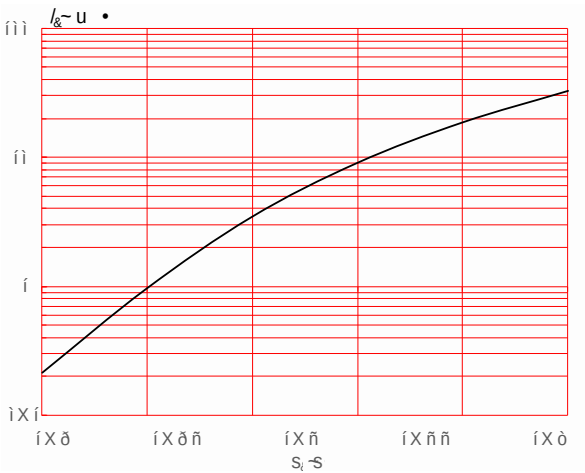
MARKING



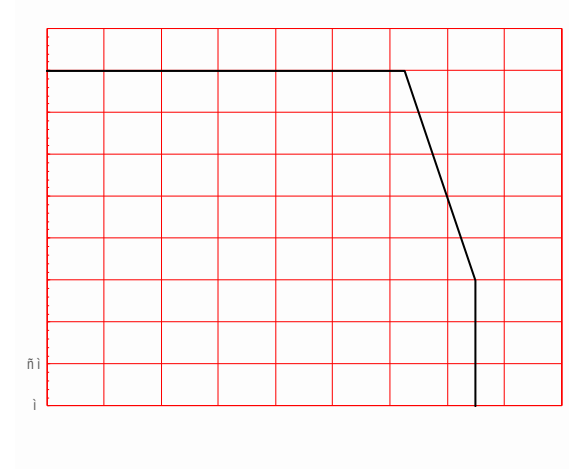


Characteristics Curves

RUZDUG &XUUHQW YV)RUZDUG 9RQWDS-ORZDEOH /(')RUZDUG
YV \$PELHQW 7HPSHUDWXUH

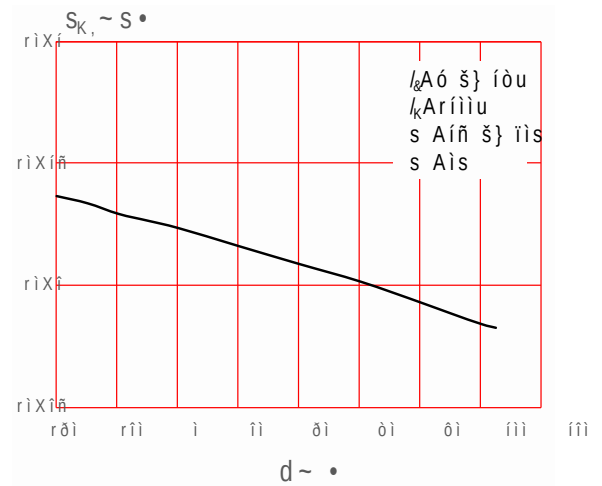
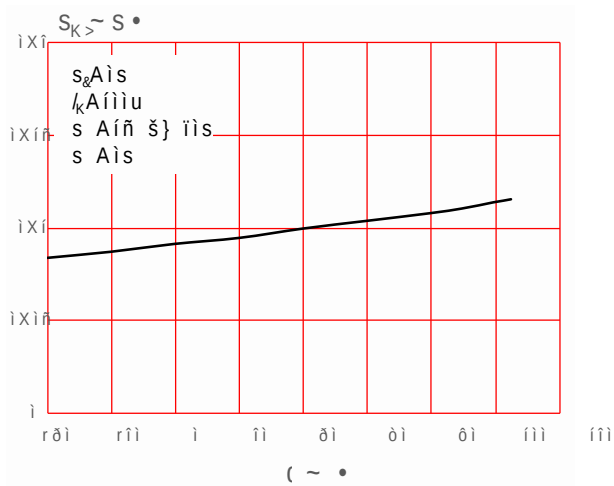


&ROOHFWRU 3RZHU 'LVVLSWLRQ YV KSHULHQW ,QSXW &XUUHQW
7HPSHUDWXUH

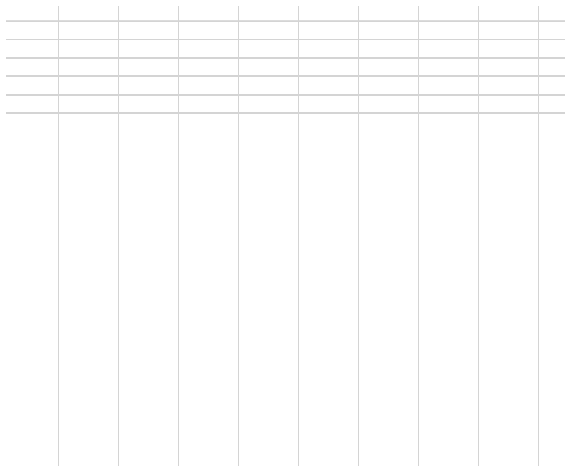




/RZ OHYHO 2XWSXW 9ROWD \$PELHQW 7HPSHUDWXUH +LJK OHYHOR 2XWSXW 9ROWD \$PELHQW 7HPSHUDWXUH



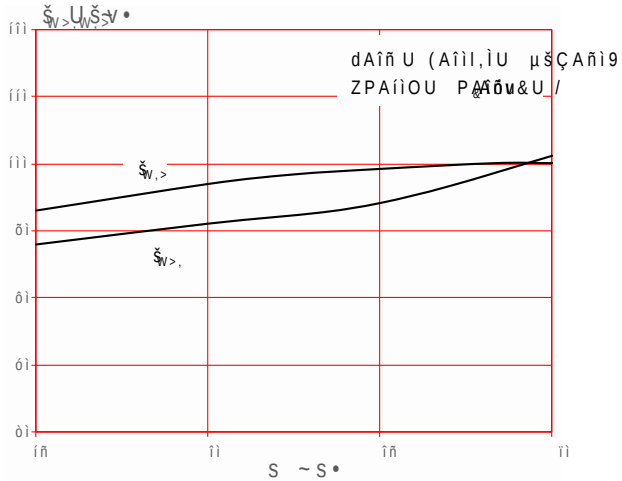
3HDN /RZ OHYHO 2XWSXW &XUUHQW+YV K /RZ OHYHO 2XWSXW 9ROWD OHYHO 2XWSXW 9ROWDJH \$PELHQW 7HPSHUDWXUH





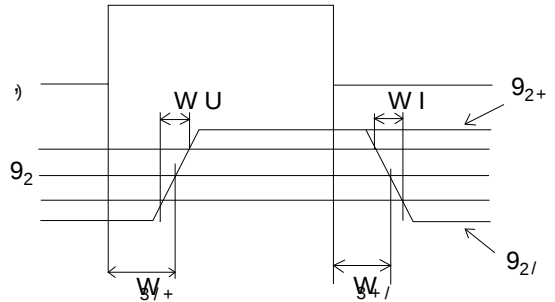
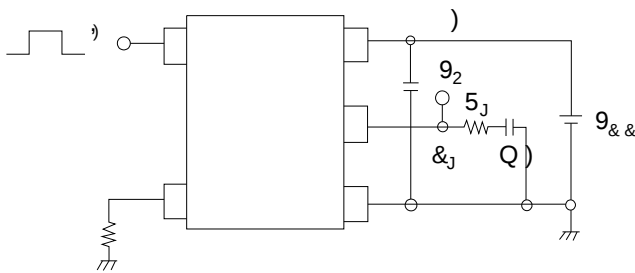
3URSDJDWLRQ 'HOD\ 7LPH YV 6XSSO\

9ROWDJH

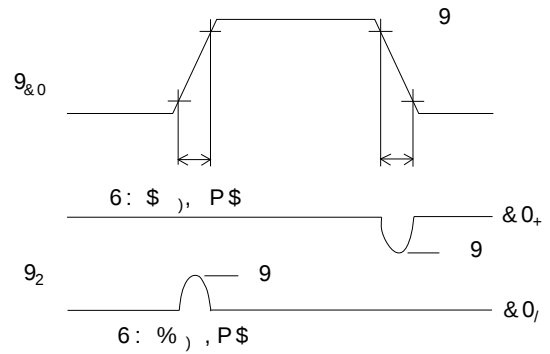
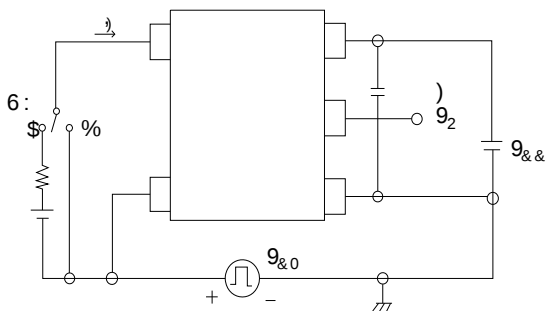


Test Circuits

6ZLWFKLQJ 7LPH XLFHW DQG :DYHIRUP

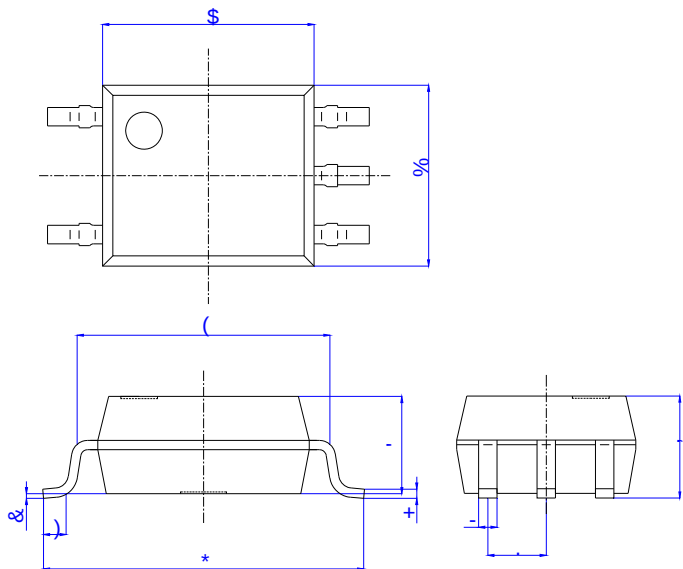


&RPPRQ 0RGH 7UDQVLHQW , PUXQLW DQG :DYHIRUP



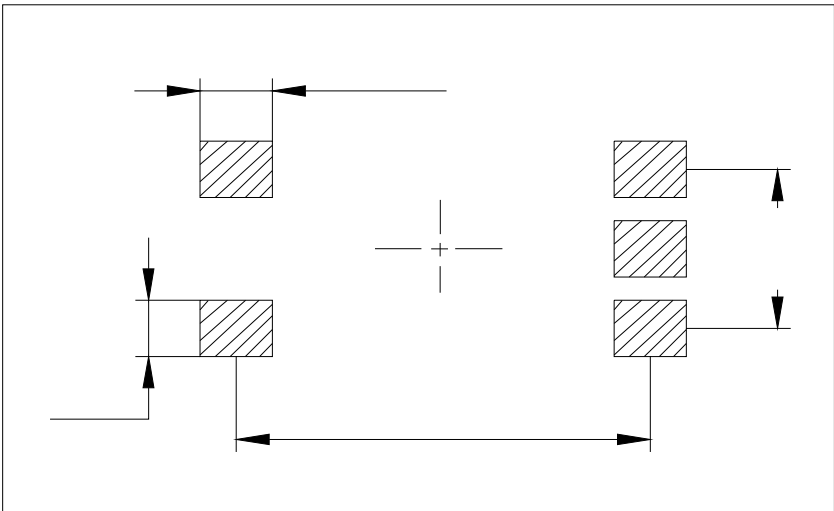


Package Dimension (Unit: mm)



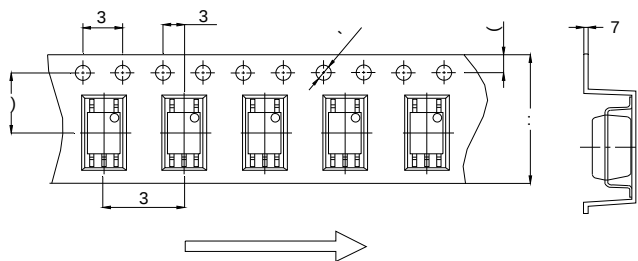
5HI	'LPHQVLRQV					
	0LOOLPHW			HUV		
	0LQ	7\ S	0D[	0LQ	7\ S	0D[
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RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

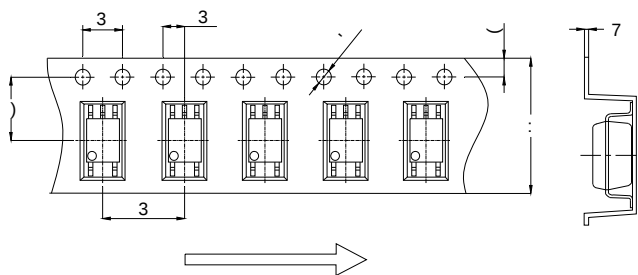




CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)



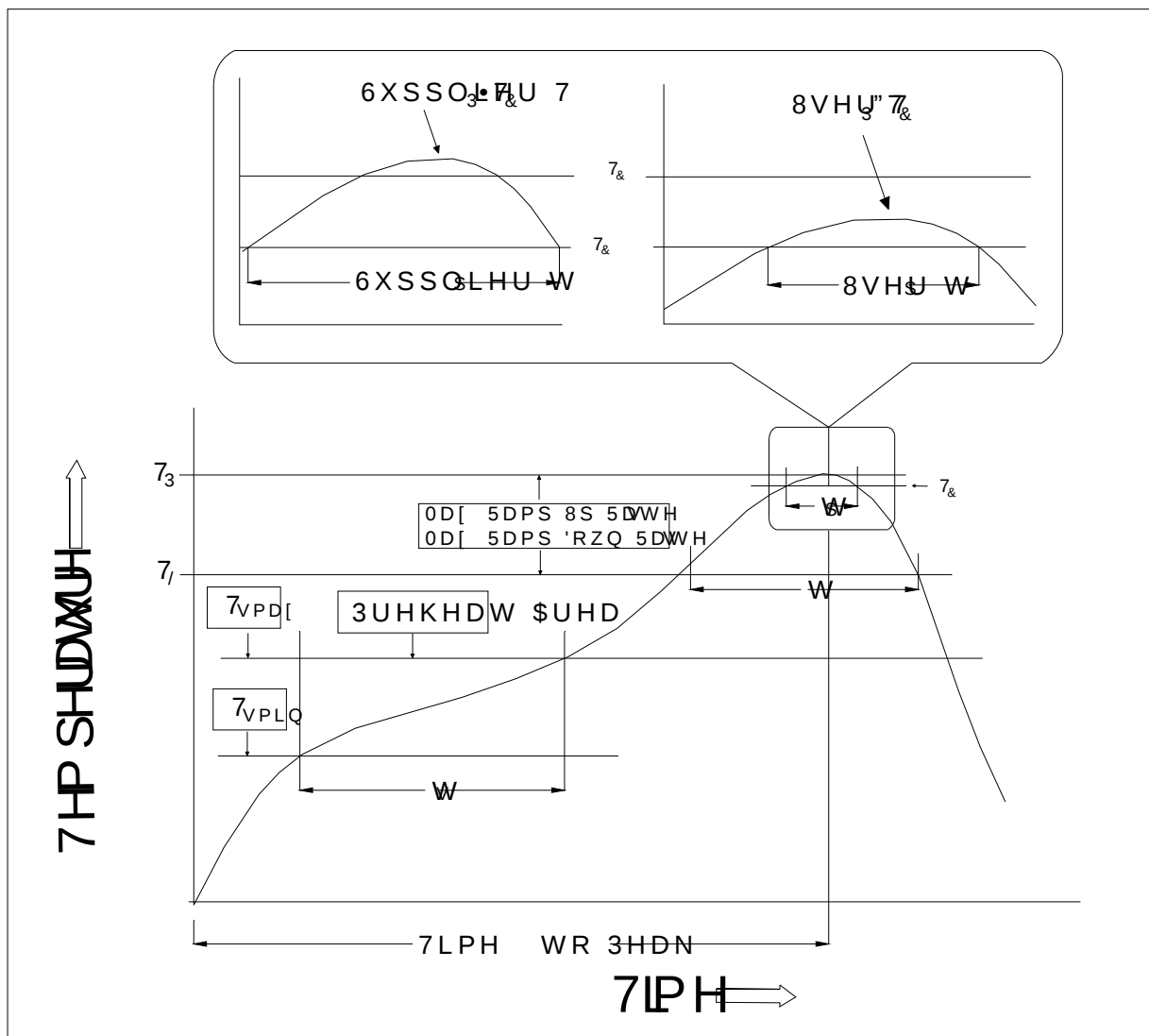
5HI	'LPHQVLRQV						,QFKHV
	0LOOLPHW			HUV			
	0LQ	7\ S	0D[	0LQ	7\ S	0D[	
'							
3							
3							
3							
(							
)							
7							
:							



5HI	'LPHQVLRQV						,QFKHV
	0LOOLPHW			HUV			
	0LQ	7\ S	0D[	0LQ	7\ S	0D[	
'							
3							
3							
3							
(							
)							
7							
:							



REFLOW INFORMATION



7HP SHUDWXUH 0LQ	7VPLQ	
7HP SHUDWXUH 0D[	7VPD[	
7LPH WV IURP 7VPLQ WR 7VPD[		VHFRQG PD[
5DPS XS 5DWH W/ WR 7VPLQ		VHFRQG PD[
/LTXLGXV 7HP SHUDWXUH 7/		
7LPH W/ 0DLQWDLQHG \$ERYH 7/		VHFRQG PD[
3HDN %RG\ 3DFNDJH 7HP SHUDWXUH		
7LPH W3 ZLWK 7VPLQ	VHFRQG	VHFRQG
5DPS GRZQ 5DWH 73 WR 7VPLQ		VHFRQG PD[
7LPH WR 3HDN 7HP SHUDWXUH		PLQXWHV PD[

1 R W H

5HIORZ VROGHULQJ LV UHFPPHQGHG DWRVZQH QHPSHWDWWDQWWDQW
\$YRLG GLUHFV FVQVHDFSRPHQZOHQWRUDFHU H[FHHGLQJ LWV PD
VWRUDJH WHPSHWDWXUH
\$SSOLFDFWLRQ RKHSHRYXERQQLWSDWHG WHPSHWDWXUHV ,QV
VFHQDULRV DQHPSVWLQRWRHFFHHG 1
(QVXUH WKH FRPSRQHQW KDV FRROHG WRDFHFWLQDQWLVXVHWDVHQ
PDQXIDFWXULQJ VWHSV
7KH FRPSRQHQW KDV DQKHODWZKHQVWRQGHGQFRQGLWLRQV
5HFRPPHQG VWRUDJH 7HPS a f&
5HFRPPHQG VWRUDJH KXPLGLW\
06/ OHYHO 06/

,QIRUPDWLRQ IXUQXNFKQW ILQ WVKOLVHGRIFG WR EH DFFXUDWH I
-LDQJVVX -LH-LH 0L&URRHOWHG WDVVQLFHV VQLV UHVUS FQXHL IER QVHT
RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG LVWFKQLQIRUPDWLRQ
LQ WKLW GRFXPHQWK LQJXZLWFKFV WVRWLFH DSDUW IURP V
VLJQHG -LDQJVSOLHVLZLWKPWKH DJUHHPHQW
3URGXFVWV DQG LQIRUPDWLRQ SURYLGHLCJLQFHVWVRGSDXPH
-LDQJVVX -LH-LH DVVXIPHLOQWUURVSDQVLQIULQJHPHQW RI RW
ZKLFK PD\ UHVXOW IURP WKH XVH RI VFKLW SURFXPHQW DQXS HL
DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXVO\ VXSSOLHG
LV D UHJLVWHUHG DQJXGLHDUN GRUF-ULRHOWHG WURQLFV &R
&RS\UKJKW -LDQJVVX -LH-LH 0LV&RRHOWHG WVRWLFH LJKWV UHVH