

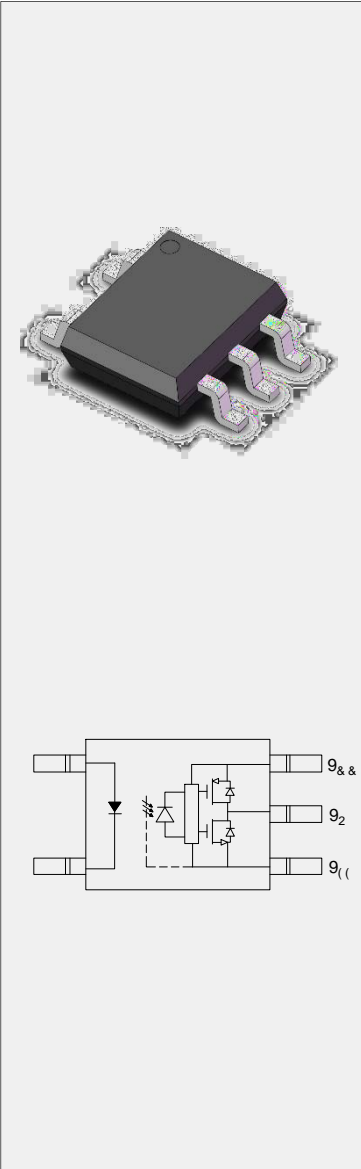


JOCDA1CB-M5

Rev.A.1.0

DESCRIPTION:

7KH SURGXFWV DURS W B WFR XGSLYUW LQ SDFNDJH 7KH GHYLDQ FLQQVDUWG R(' FRXSOHG WR DQ LQVQH JKLDW HGS HKH GKSK ,& FKLS ,W SURYLGHV JXDUDQWHHG S DW WHP SHUDWXU W XS WR VLFDOO\ VP FRPSOLDQW ZLWK LQWHUQDWLRQDO V LQVXODWLRQ ,W WKXV SURYLGHV D V IRU DSSOLFDWLRQV WKDW UHTXLUH V LQWHUQDO QR LGHHVVDLJXODG DSSURMHG FR WUDQVLHQW LPPXQLW\LRILGHDD MRU DQG SRZHU 026)(7 JDWH GULYH 7KH S LQ LQGXFVWULDO LQYHUVHUV 026)(7D LQGXFVLRQ FRRNRS DQG KRPH DSSO



MAIN FEATURES

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

Truth Table

Table with 3 columns and 3 rows containing logic symbols and their corresponding outputs.

ABSOLUTE MAXIMUM RATINGS 7HP SHUDWXUH f &

Table with 4 columns: Parameter, Symbol, Value, Unit. It lists maximum ratings for various parameters.

	5HYHUVH 9ROWDJH	9 ₅		
	3RZHU 'LVVLSDWLRQ	3'		P:
'HWHFWRU	2XWSXW 9ROWDJH	2	9	
	6XSSO\ 9ROWDJH	9&&		
	3RZHU 'LVVLSDWLRQ	3&		P:
	,VRODWLRQ 9ROWDJH	9 _{LVR}	8	9UPV
	2SHUDWLQJ 7HPSHUDWXUH	7 _{RSU}	a	
	-XQFWLRQ 7HPSHUDWXUH	7 _M		
	6WRUDJH 7HPSHUDWXUH	7 _{VWJ}	a	
	7RWDO 3RZHU 'LVVLSDWLRQ	3 _{WRW}		P:
	6ROGHULQJ 7HPSHUDWXUH	7 _{VRO}		

NOTE1 $i\ddot{i} \cdot \% \mu o \cdot U \ddot{i}\ddot{i}, \dot{i} (\text{œ} \text{ ‹} \mu \text{ v } \zeta$

NOTE2 $(\text{)} \text{œ} \text{ i} \text{u} \text{]v} \mu \text{š} \text{ U } \text{Z} \text{X}, \text{X} \text{A} \text{đ} \text{i} \cdot \text{ò} \text{i} \text{9}$

ELECTRICAL CHARACTERISTICS 7HPSHUDWXUH *f* &

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
, QSXW	)RUZDUG 9ROWDJH )	) P\$	,			9
	5HYHUVH &XUUHQW ,5	5 9	9			\$
	7HUPLQDO &DSDFLWDQFH 1 0 +&					S)
2XWSXW	3HDN +LJK OHYHO 2XWSXW 9&& 9	23+	9 ₂ 9&& 9			\$
	&XUUHQW		9 ₂ 9&& 9			\$
	3HDN /RZ OHYHO 2XWSXW 9((9	23/	9 ₂ 9((9			\$
	&XUUHQW		9 ₂ 9((9			\$
	+LJK /HYHO 6XSSO\ &XUUHQW 9		) P\$			P\$
			9 ₂ 2SHQ			
	/RZ /HYHO 6XSSO\ &XUUHQW 9		) P\$			P\$
			9 ₂ 2SHQ			
	+LJK /HYHO 2XWSXW 2+9ROWDJH 9		) P\$	9		9
		2 P\$				
/RZ /HYHO 2XWSXW 9ROWDJH 9		9) 9	9		9	
		2 P\$				
7KUHVKROG , QSXW &XUUHQW 9		9&& 9	,		P\$	
		9 ₂ U 9				

	7KUHVKROG ,QSXW 9+ROWD ^{9&& 9} JH _{92 0} 9						9
	6XSSO\ 9ROWDJH 9&&						9

SWITCHING SPECIFICATION

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
3URSDJDWLRQ 'HOD\ 7LPH WR +LJK 2XWSXW /HYHO	V_{W+}	5J &J Q)) : P\$ 9&& 9				QV
3URSDJDWLRQ 'HOD\ 7LPH WR /RZ 2XWSXW /HYHO	$V_{W/}$	5J &J Q)) : P\$ 9&& 9				
3URSDJDWLRQ 'HOD\ 'LIIHUHQFH %HWZHHQ \$Q\ 7ZR 3DUWV	$V_{W/}$ / V_{W+}	5J &J Q)) 8: P\$ 9&& 9				
2XWSXW 5LVH 7LPH	W/R	5J &J Q)) : P\$ 9&& 9				
2XWSXW)DOO 7LPH	WR	5J &J Q)) : P\$ 9&& 9				

&RPPRQ 0RGH 7UDQVVLHQW

,PPXQLW\ DW +LJK /HYHO 2XWSXW

9&& 9

7_D 9FU Hp0 *A| P ä 6'0 @ ä0

D

Recommended Operating Conditions⁷⁸

Characteristics	Symbol	Min.	Typ.	Max.	Unit
Operating Power	P_{OP}				W
Operating Current	I_{OP}				mA
Operating Voltage	V_{OP}				V
Operating Frequency	f_{OP}				kHz

Note1: The operating power is the sum of the power dissipated in the device and the power dissipated in the external components. The operating current is the current flowing through the device during normal operation. The operating voltage is the voltage applied to the device during normal operation. The operating frequency is the frequency of the signal applied to the device during normal operation.

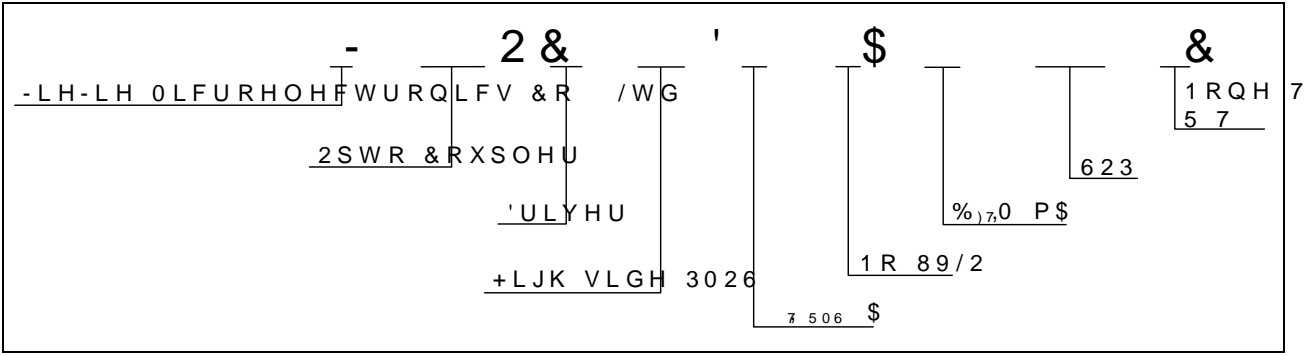
Note2: The operating power is the sum of the power dissipated in the device and the power dissipated in the external components. The operating current is the current flowing through the device during normal operation. The operating voltage is the voltage applied to the device during normal operation. The operating frequency is the frequency of the signal applied to the device during normal operation.

Note3: The operating power is the sum of the power dissipated in the device and the power dissipated in the external components. The operating current is the current flowing through the device during normal operation. The operating voltage is the voltage applied to the device during normal operation. The operating frequency is the frequency of the signal applied to the device during normal operation.

Note4: The operating power is the sum of the power dissipated in the device and the power dissipated in the external components. The operating current is the current flowing through the device during normal operation. The operating voltage is the voltage applied to the device during normal operation. The operating frequency is the frequency of the signal applied to the device during normal operation.

Note5: The operating power is the sum of the power dissipated in the device and the power dissipated in the external components. The operating current is the current flowing through the device during normal operation. The operating voltage is the voltage applied to the device during normal operation. The operating frequency is the frequency of the signal applied to the device during normal operation.

ORDERING INFORMATION



Packing Quantity	
Option	Quantity
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MARKING

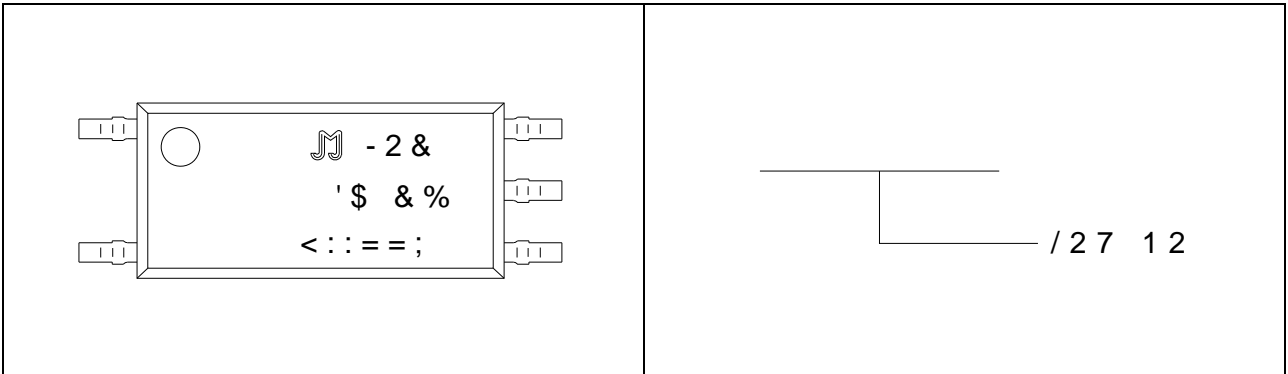


FIG.7: /RZ OHYHO 2WWSXW V9R3PELHQ
7HPSHUDWXUH

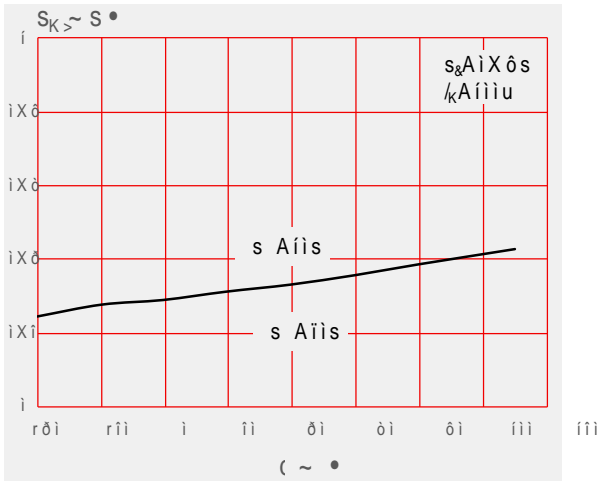


FIG.8: +LJK OHYHOR 2XWDSXHW 9 \$ PEL
7HPSHUDWXUH

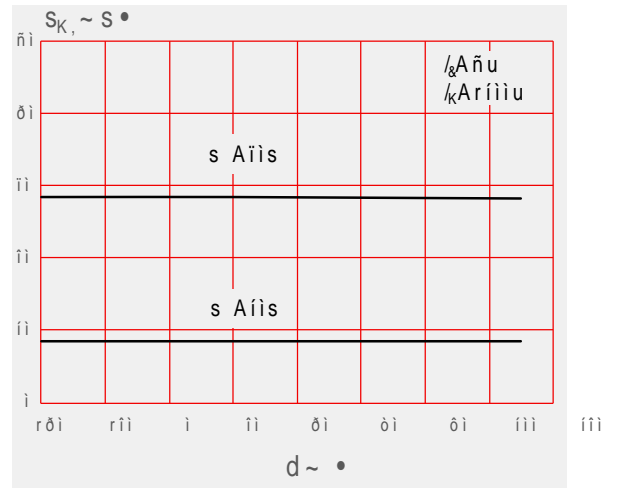


FIG.9: /RZ OHYHO 2WWSXW V9R3HDN /R
OHYHO 2XWSXW & XUHHQW

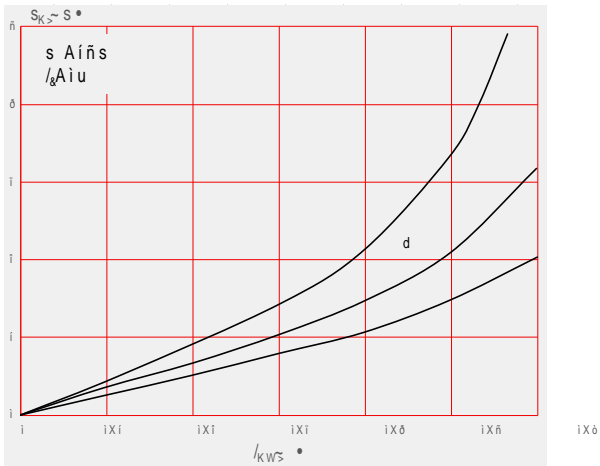
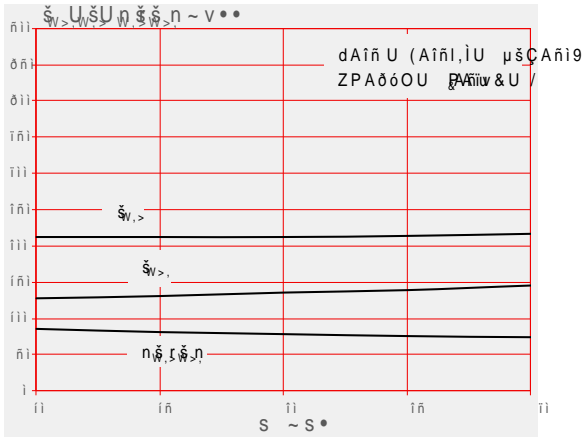


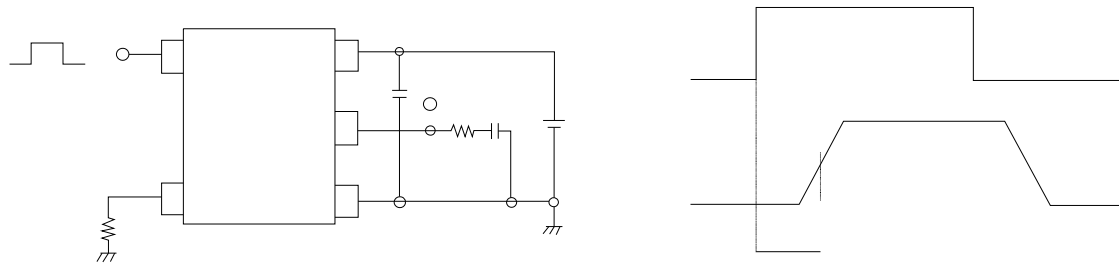
FIG.10: +LJK OHYHO 2XWSXW 9ROWD
3HDN +LJK OHYHO 2XWSXW & XUHHQW

FIG.13: 3URSDJDWLRQ 'HOD\ 7LPH 3XOVH :LGWK
'LVWRUWLRQ YV 6XSSO\ 9ROWDJH

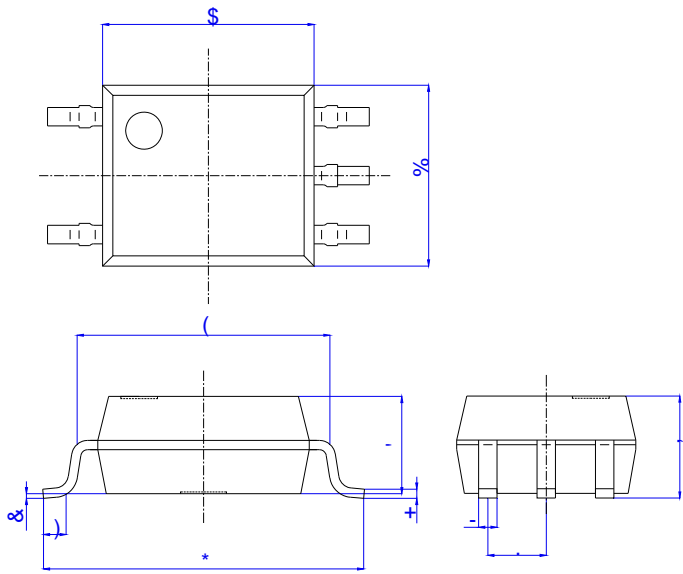


Test Circuits

FIG.14: 6ZLWFKLQJ 7LRPH XHWDQG :DYHIRUP

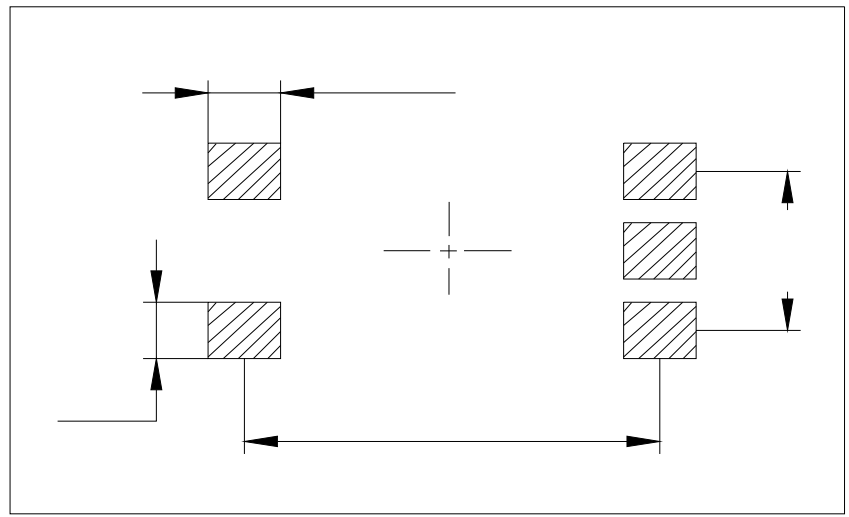


Package Dimension (Unit: mm)



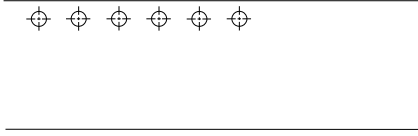
5HI	'LPHQVLRQV					
	0LOOLPHWHUV			,QFKHV		
	0LQ	7\S	0D[0LQ	7\S	0D[
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RECOMMENDED SOLDER MASK (Dimensions in mm unless otherwise stated)

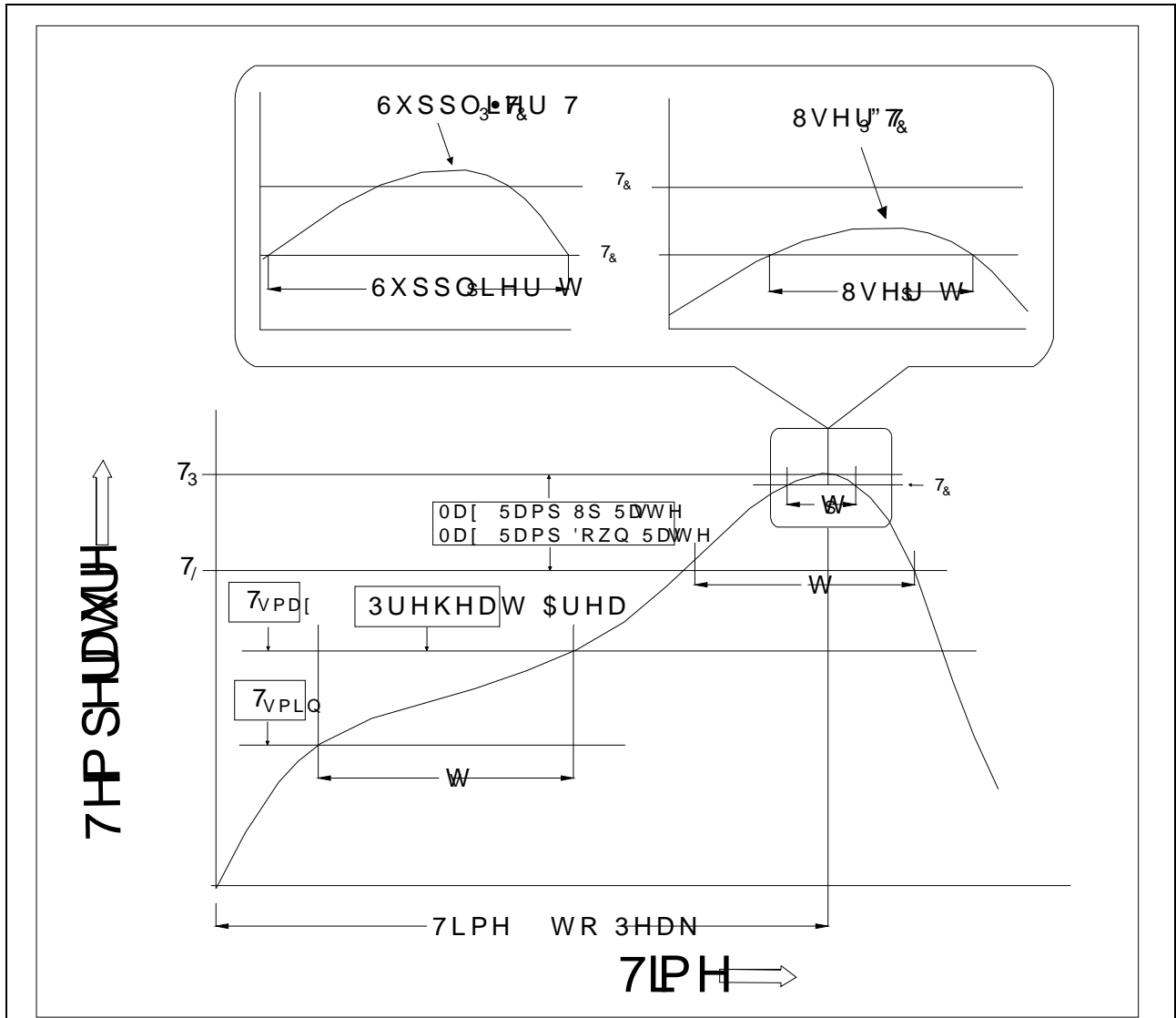


CARRIER TAPE SPECIFICATIONS (Dimensions in mm unless otherwise stated)

Option None



REFLOW INFORMATION



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

1RWH

5HIORZ VROGHULQJ LV UHFRPPHQGHG/ DWRZKH QHPSHWDWWDQW DQW
\$YRLG GLUHFV FRQVHDVSRPHQZDQWXRUDFRU H[FHHGLQJ LWV PD
VWRUDJH WHPSHUDWXUH

\$SSOLFDWLRQ RKHUSRYXENRQLVSOHGDDWHG WHPSHUDWXUHV ,QV
VFHQDULRV DQHPSSOLHGWRHFFHHG 1

(QVXUH WKH FRPSRQHQW KDV FRROHG SURPHQWQZLXPSWHDXHCL
PDQXIDFWXULQJ VWHSV

7KH FRPSRQHQW KDM BQKHHDLOZKHQVWDQGHGKFRQGLWLRQV

5HFRPPHQG VWRUDJH 7HPS a f&

5HFRPPHQG VWRUDJH KXPLGLW\

06/ OHYHO 06/

,QIRUPDWLRQ IXUQXFKHQ/ LQ WKOLHGRHG WR EH DFFXUDWH D
-LDQJVVX -LH-LH 0LRRHOWHG WDVROLFFVVQLRVUHRUSRQHLERQVHT
RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG MWFKQJURPDVWLRQ
LQ WKLV GRFXPHQVLDQJYXZLWHFRXWRQRWLFH DSDUW IURP V
VLJQHGH -LDQJVVXOLHVLZLFRKPWKH DJUHHPHQW

3URGXFWV DQG LQIRUPDWLRQ SURYLGHG LQHWKWRGFRDXPH
-LDQJVVX -LH-LH DVVXIPHLOQW\URVSRQVLQIULQJHPHQW RI RW
ZKLFK PD\ UHVXOW IURP WKH XVH RI VXLK SURFXPHQW DQGS HL
DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXVO\ VXSSOLHG



LV D UHJLVWHUHGDQJMDXGLPHDUNRUF-URHOWHG WURQLFV &R
&RS\ULJKW -LDQJVVX -LH-LH CLVRRHOWHFGVSRQHLJJKWV UHVH