



JOCMA28D-SVS4

Rev.A.1.0

7KH SURGXFWV DUHODSVQ 7KSWG FDFU LV D YHU\
 VPDOO RXWODCHQSC RWRUHOD\ VXLWDEOH IRU VXUIDFH PF
 DVVHPEO\ ,W FRQVLVWV RI DQ LQIUDUHG /(' RSWLFDOO\ FR
 SKRWR 026)(7 DQG LV KRZVHSDENDDH ,W IHDWXUHV
 ORZ RXWSXW FDSDFLWDFHID&M)RQRDI VZLWFKLQJ RI
 KLJK IUHTXHQF\ VLJQDOD PDUNVZLWFKLQJ DSSOLFDFWLR
 LQ KLJK VSHHG WHVWHVWUH7ZIHGSHORGXVHG LQ DXWRPDWL
 WHVW HTXLSPHQW KLWVWVSHHG KRJKFV,SHHG PHPRU\
 WHVWHUV DQG PHDVXULQJ LQVWUXPHQVV

,VRODWLRQ YRDMDJH
 2SHUDWLQJ WHPSHJHDXUH WR f &
 5(\$&+ 5R+6 FRPSOLDQFH
 +%0 + \$ 00 0 &'0 &
 &4& DSSURYHG
 9'(DSSURYHG
 8/ DSSURYHG

7HPSHJHDXUH f &

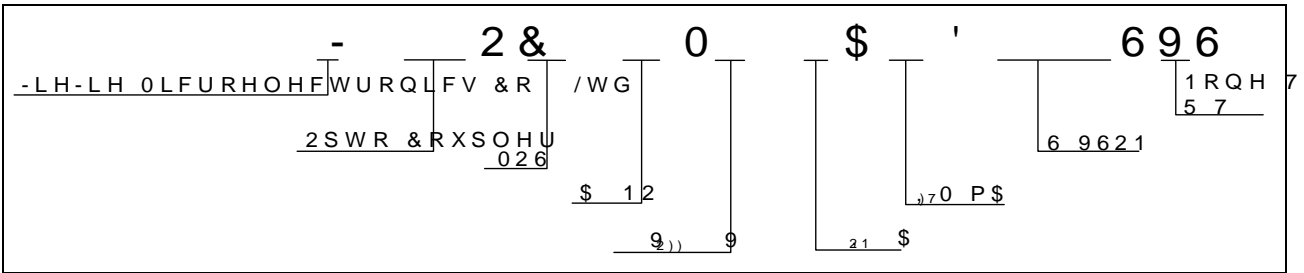
6ROGHULQJ 7HPSHUDWXUH	7VRO		
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7HPSHUDWXUH f &

Parameter		Symbol	Condition	Min.	Typ.	Max.	Unit
, Q SXW)RUZDUG 9ROWDJH) 9 P\$				9
	5HYHUVH &XUUHQW		5, 9		9		\$
	, Q SXW &DSDFLWDQFH		9 9 I 0+]				S)
'HWHFWRU	2II VWDWH &XUUHQW		2)) 9	9			Q \$
	2XWSXW &DSDFLWDQFH		9 9 I 0+] W V				S)
&RXSOHG	7ULJJHU /(' &XUUHQW)7	21 \$				P \$
	5HWXUQ /(' &XUUHQW)&	2)) \$				P \$
	2Q VWDWH 5HVLVWDQFH	521	21 \$) P\$ W V				
6ZLWFKLQJ &KDUDFWH	, VRODWLRQ 5HVLVWDQFH	5, 62	' & 9 a 5 +				
	7XUQ 2II 7LPH	RQ	W) P\$				P V
	7XUQ 2II 7LPH	RII	W / 0D[

Characteristics	Symbol	Min.	Typ.	Max.	Unit
6XSSO\ 9ROWDJH	9'				9
, Q SXW)RUZDUG &XUUHQW					
2Q VWDWH &XUUHQW	21				
2SHUDWLQJ 7HPSHUDWXUH					



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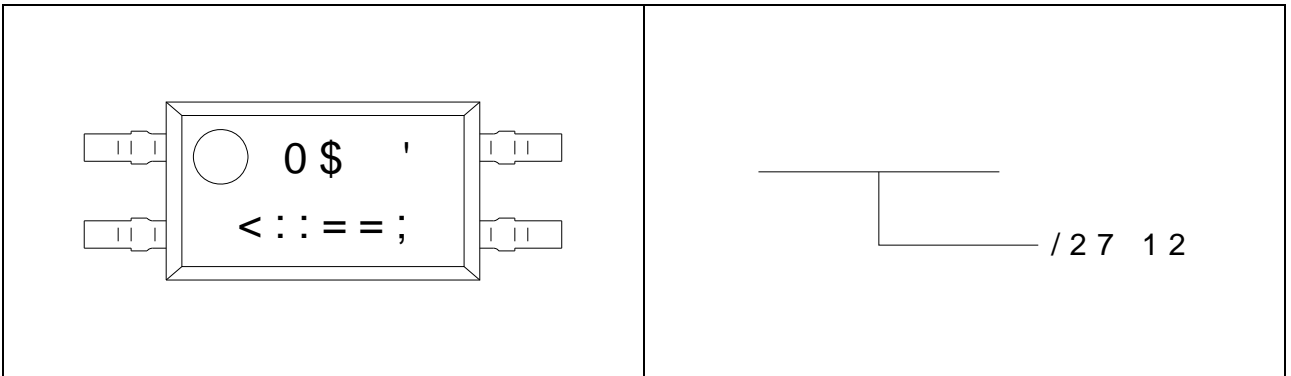


FIG.1: 0D[\$OORZDEOH /(')RUZDUG \$PELHQW 7HPSHUDWXUH

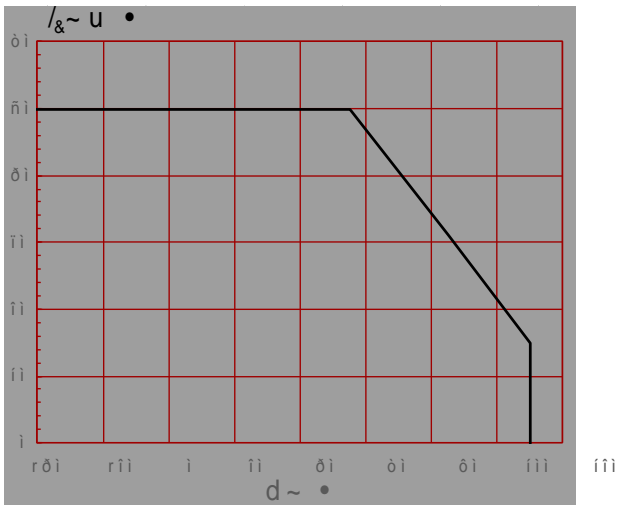


FIG.2: 2QVWYDWH &XUUHQW YV \$PELHQW 7HPSHUDWXUH

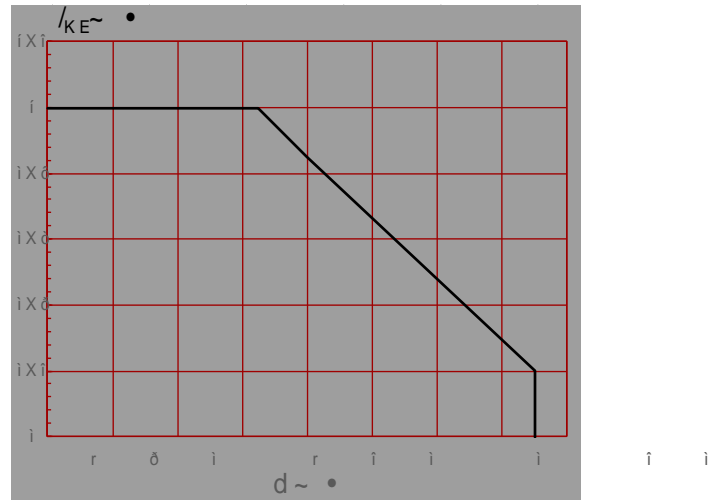


FIG.3: /(')RUZDUG &XUUHQW YV /(' '9ROWDJH

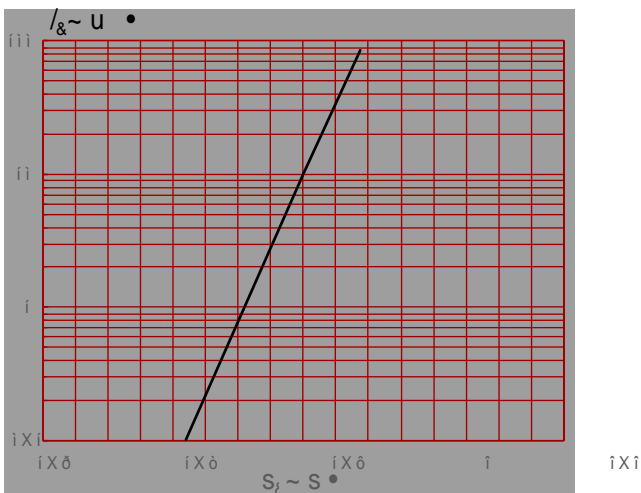


FIG.4: 2QVWYDWH &XUUHQW YV 2QV

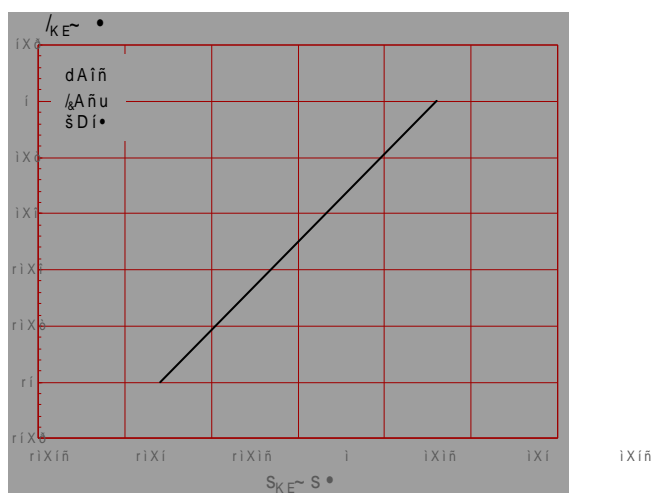


FIG.5: 2Q 5HVLVWYDWH &XUUHQW 7HPSHUDWXUH

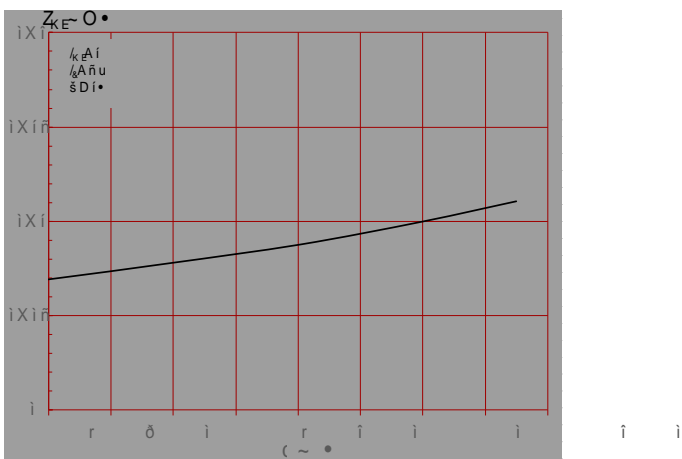


FIG.6: 2QVWYDWH &XUUHQW YV \$PELHQW 7HPSHUDWXUH

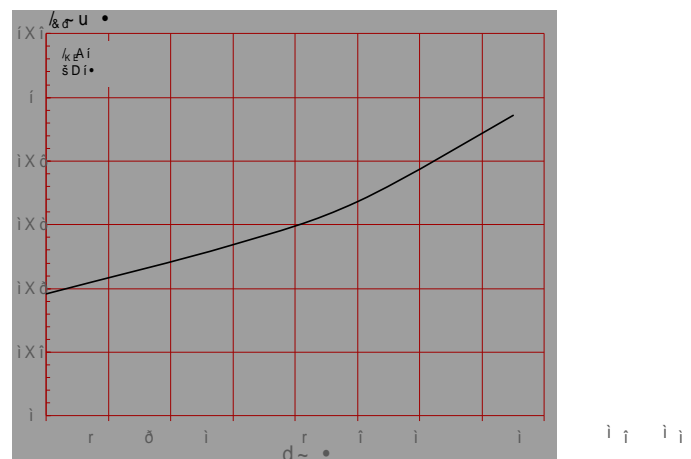


FIG.7: $I_{CE} \sim I_{BE}$ & $I_{CE} \sim V_{CE}$ CHARACTERISTICS & FIG.8: $I_{CE} \sim I_{BE}$ & $I_{CE} \sim V_{CE}$ CHARACTERISTICS

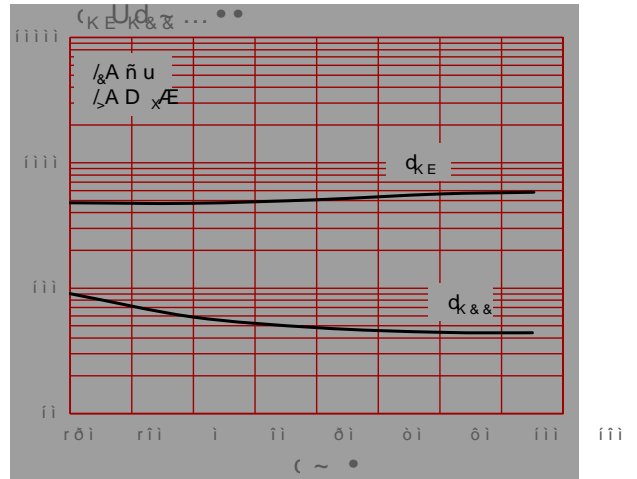
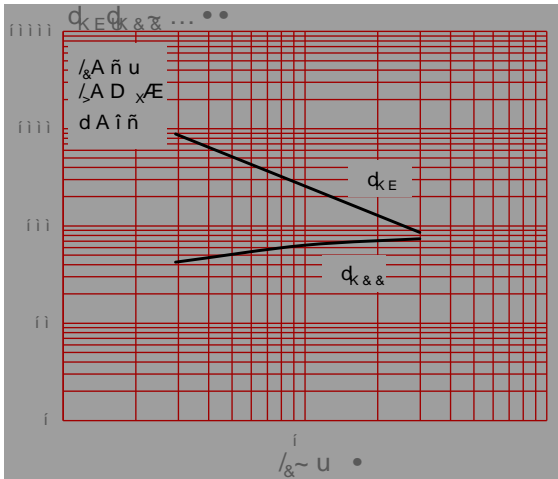


FIG.9: $I_{CE} \sim V_{CE}$ CHARACTERISTICS & FIG.10: $I_{CE} \sim V_{CE}$ CHARACTERISTICS

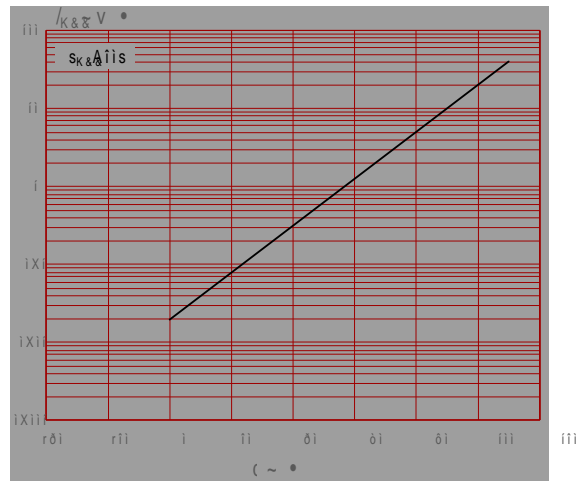
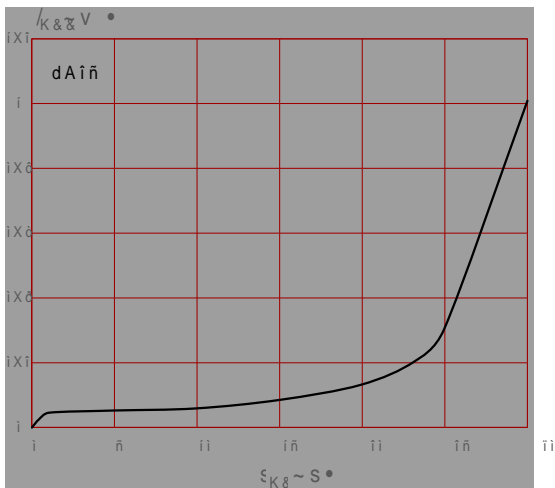
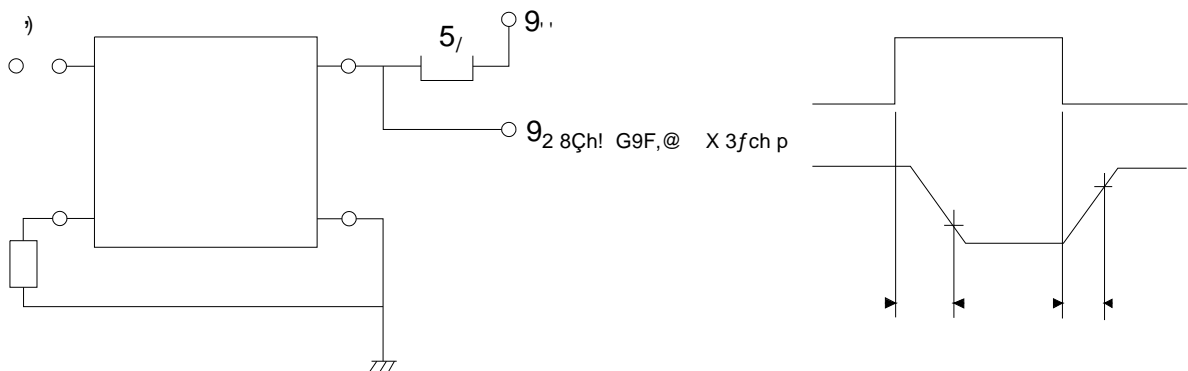
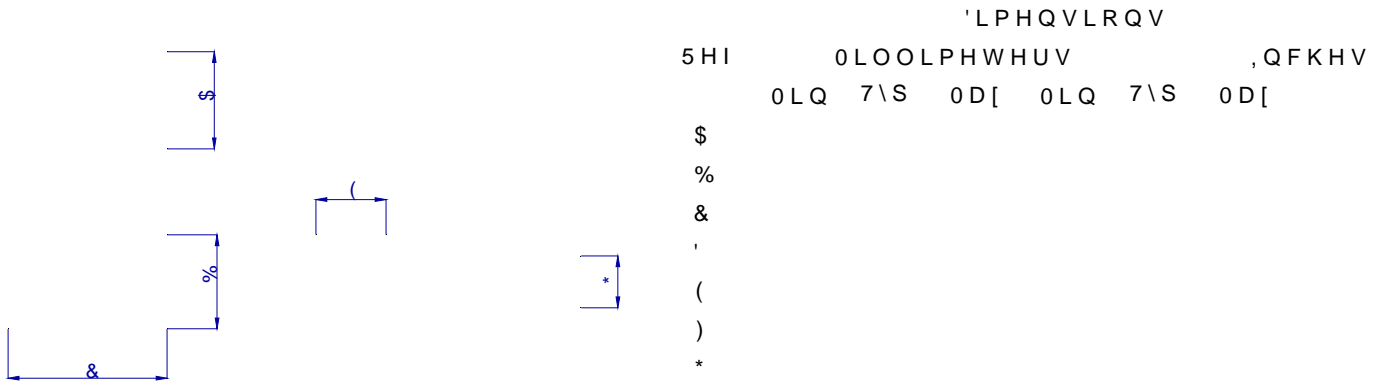
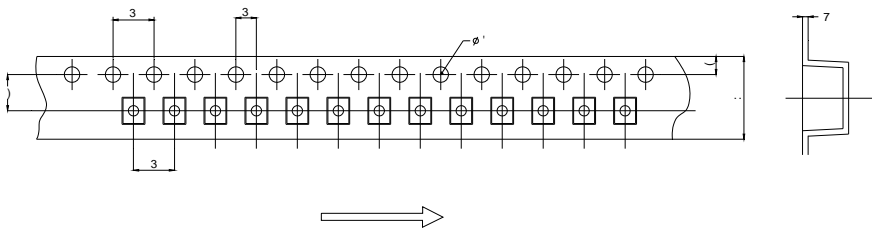


Fig.11: Switching Time Test Circuit and Waveform







		'LPHQVLRQV					
5HI		0LOOLPHW			HUV ,QFKHV		
		0LQ	7\ S	0D[0LQ	7\ S	0D[
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1RWH

5HIORZ VROGHULQJ LV UHFRPPHQGHG DWRVGHQRHPSHHDWKXUHWK
\$YRLG GLUHFV FRKWDHFRBEEPRZHQWXRLODFRUV H[FHHGLQJ LWV PD
VWRUDJH WHPSHUDWXUH

\$SSOLFDWLRQ RIIHSURVXELURKQZWSOHGDDWHG WHPSHUDWXUHV ,QV
VFHQDULRV DQHPSVOLHQRWRHFFHHG 1

(QVXUH WKH FRPSRQHQW KDV FRROHG SMRRDREHGHQWZVWHPSHUDXMX
PDQXIDFWXULQJ VWHSV

7KH FRPSRQHQWKBV DQVKHDIUOZKHQVWDRGHGKFRQGLWLRQV


5HFRPPHQG VWRUDJH 7HPS a f&

5HFRPPHQG VWRUDJH KXPLGLW\

06/ OHYHO 06/

,QIRUPDWLRQ IXUQXFKHQ/ LQ WKOLHGRHG WR EH DFFXUDWH D
-LDQJVV -LH-LH 0LRRHOWHFDVROXLFHVQLRVUHRUSRQVLEERQVHT
RI XVH ZLWKRXW FRQVLGHUDWLRQ IRG MWFKQIRUPDWLRQ
LQ WKLV GRFXPHQV LQJYXZLWHFRVWRQRWLFH DSDUW IURP V
VLJQHGH -LDQJVSOLHVLZLFRKPKH DJUHHPHQW

3URGXFWV DQG LQIRUPDWLRQ SURYLGHLQJLQHWKVRGSDXVPH
-LDQJVV -LH-LH DVVXIPHLOQR\URVSDQVLQIULQJHPPHQW RI RW
ZKLFK PD\ UHVXOW IURP WKH XVH RI VFKLW SURFXPHQW DQGS HL
DQG UHSODFHV DOO LQIRUPDWLRQ SUHYLRXVO\ VXSSOLHG

 LV D UHJLVWHUHGDQJJDGHLPHUNRUF-URHOWHFWURQLFV & R
&RS\ULJKW -LDQJVV -LH-LH FLVRRHOWHFGVSPDQGLJKWV UHVH