(6' (%64

/LQH %L GLUHFWLRQDO (6' SURWHFWL

)HDWXUHV

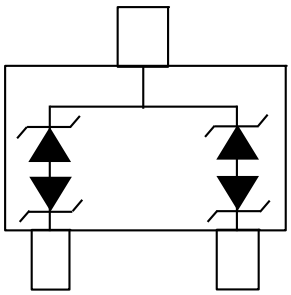
- 7UDQVLHQW SURWHFWLRQ IRU HDFK OL
  - ,(& (6'Fïìls }vš šU Fïìls]Œ
  - ,(& ~š‰Aôlîì…••
- /RZ OHDNDJH FXUUHQW
- 8OWUD ORZ FODPSLQJ YROWDJH
- 5R+6 &RPSOLDQW
- 3DUW QR Z4LWKHVDQVL$(& 4 TXDOLILH

$SSOLFDWLRQV

- 9HKLFOH GRPDLQ FRQWUROOHU 9&8 HC SURWHFWLRQ
- (OHFWURVWDWLF GLVFKDUJH (6' SURWHFWLRQ HOHFW PXOWLPHGLD LQWHUIDFH
- &$1 %XV SURWHFWLRQ
- $XWRPRWLYH DSSOLFDWLRQV

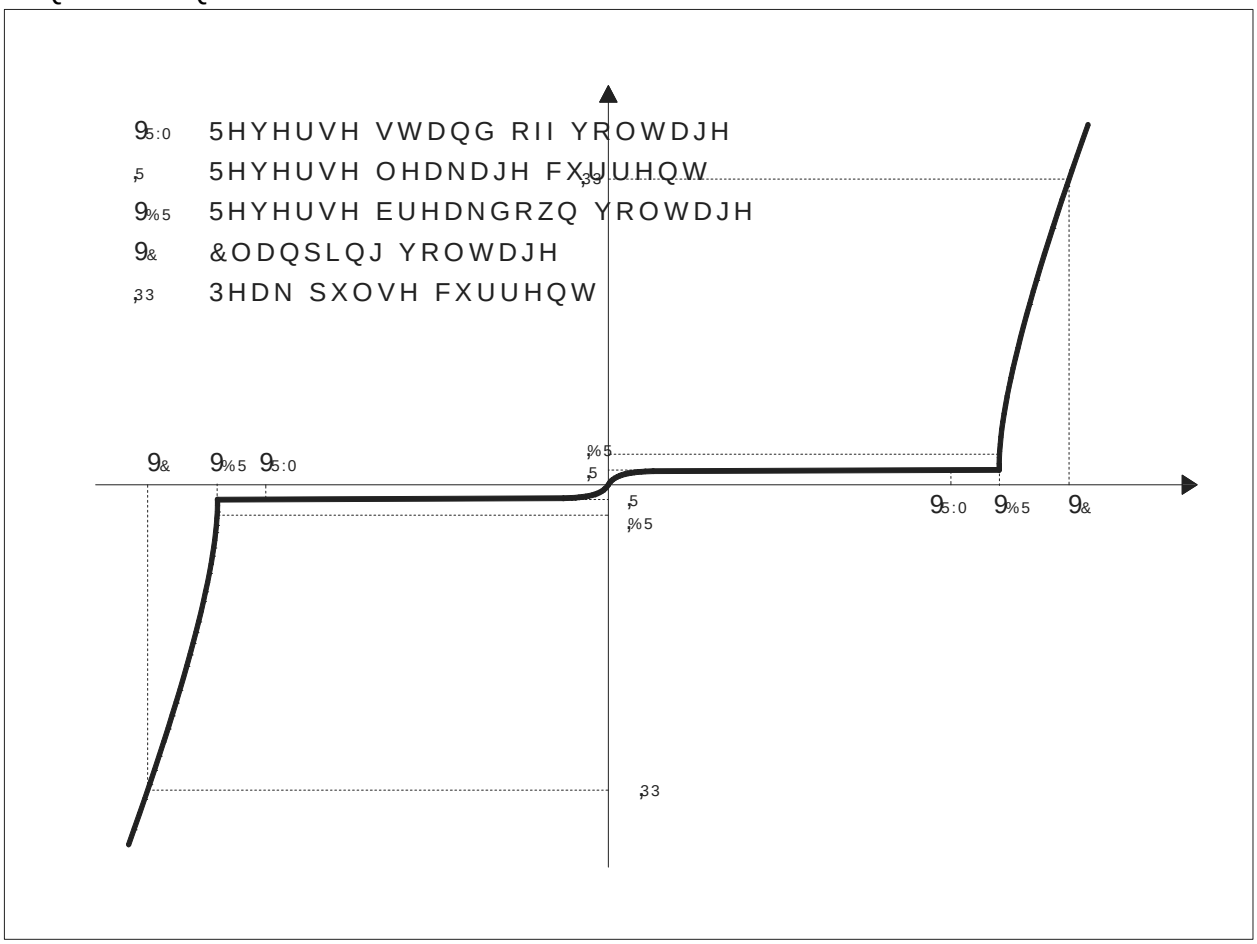
0HFKDQLFDO 'DWD

- 3DFNDJH 627
- /HDG)LQLVK 0DWWH 7LQ
- &DVH 0DWHULDO ³*UHHQ´ 0ROGLQJ &R
- 0RLVWXUH 6HQVLWLYLW\ /HYHO SHU



^Kdrîï

V'HILQLWLRQV RI HOHFWULFDO FKDUDFWHULVWLFV



v0D[LPXP 5DWLQJV

3$5$0(7(5	6<0%2/	/,0,76	81,7
3HDN SXOVH SRZHU W	3SN		:
(6' DFFRUGLQJ WR ,(& DLU GLVFKDUJH	9(6'	"	.9
(6' DFFRUGLQJ WR ,(& FRQWDFW GLVFKDUJH		"	
-XQFWLRQ WHPSHUDWXUH	-	a	
6WRUDJH WHPSHUDWXUH	67*	7a	

1RWHV

&$87,21 6WUHVVHV DERYH WKRVH OLVWHG XQGHU 3HDN RSHUDWLQJ &RQGLWLRQV PD\ FDXVH GDPDJH WR WKH GHYLFH DQG VKRXOG EH DYRLGHG 7KLV LV D VWUHVV RSHUDWLQJ RI WKH FRPSRQHQW DW WKHVH RU DQ\ RWKHU FRQGLWLRQV EH\RQG WKRVH LQGLFDWHG LQ WKH RSHUDWLRQDO VHFWLRQV RI WKLV VSHFLILF

v(OHFWULFDO &KDUDFWHULVWLFV

3$5$0(7(5	6\PERO	81,7	&RQGLWLRQV	0LQ	7\S	0D[
5HYHUVH 6WDQGRII 9ROWDJH 5:0	9	9				
5HYHUVH EUHDNGRZQ YROWDJH %5			%59 P$			,
5HYHUVH OHDNDJH FXUUHQW 5	$	, 9:0	9			
&ODPSLQJ 9YROWDJH &		9	33 $S W V			
		9	33 $S W V		9	
		9	33 $S W V			
'\QDPLF UHVLVWDQFH 5'<1			7/3 WS QV , 2 WR *URXQG			
W l Wµo• µŒŒ vš	,33		S $ V			W
-XQFWLRQ FDSDFLWDQFH -			& 5 S9 l 0)+]			9

1RWHV

1RQ UHSHWLWLWLHYHDFFXUUHGQQJSWR ,(&

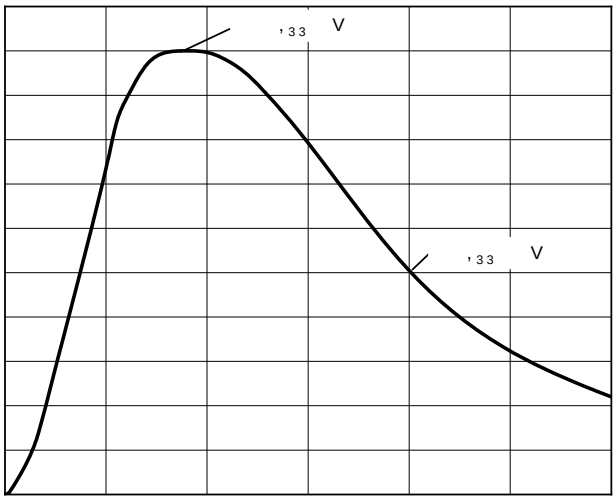
7/3 SDUDPHWHU= QV WQV DYHUDJLQJ ZLQGRZ LRPV FDVHWRDWQG5IURP $ V

v2UGHULQJ ,QIRUPDWLRQ ([DPSOH

35()(5(' 3 1	3$&.,1* &2'(	81,7 :(,*+7 P	0,1,080 3$&.$*(SFV	,11(5 %2; 48$17,7< SF	287(5 &$572 48$17,7< SF	'(/,9(5< 02'(
(6' (%64	)	$SSUR[LPDWH				UHH

v &KDUDFWHULVWLFV 7\SLFDO

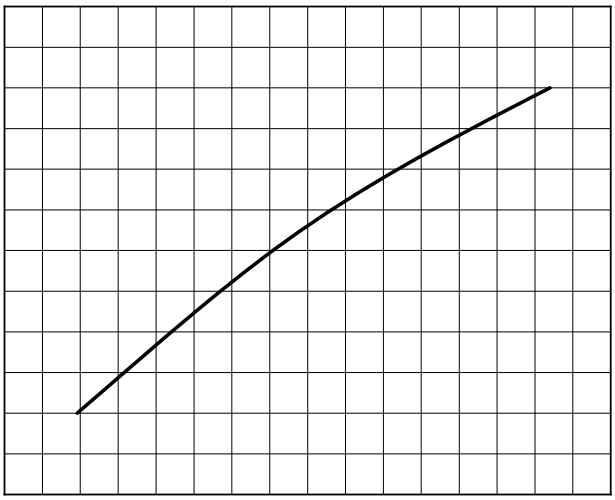
)LJ V 3XOVH :DYHIRUP



3HDN 3XOVH &XUUHQW

7LPH

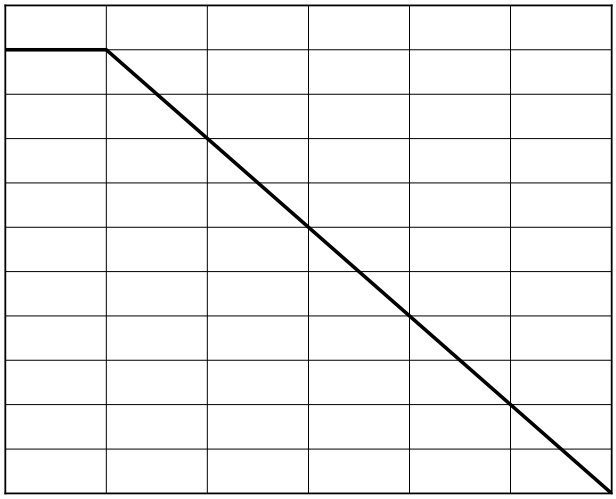
Fig.2:Peak Pulse Current vs Clamping Voltage



IPP Peak Pulse Current (A)

VC Clamping Voltage (V)

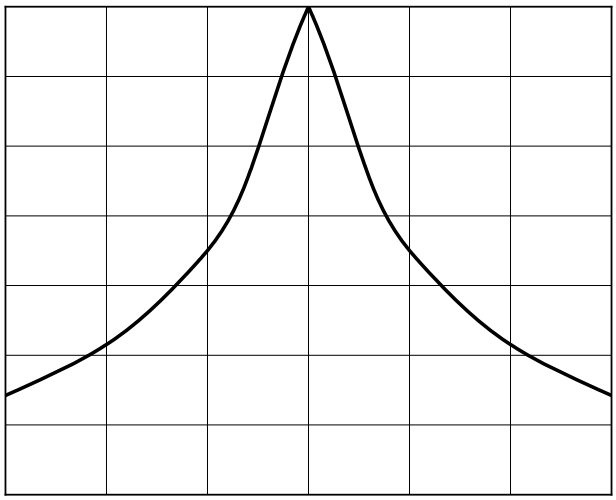
)LJ 3RZHU 'HUDWLQJ &XUYH



3RZHU 'HUDWHG

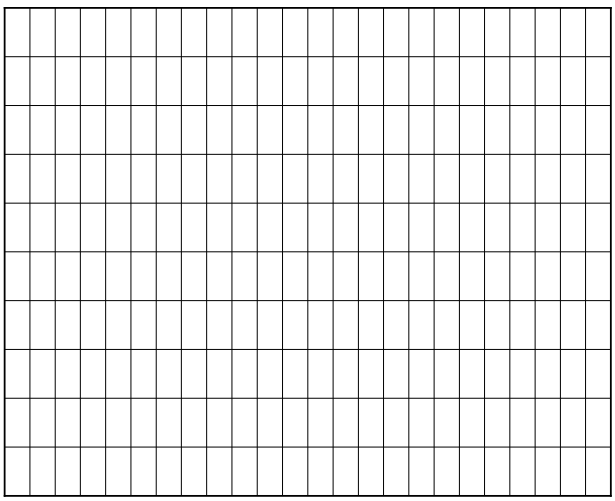
7HPSHUDWXUH

Fig.4: Capacitance vs. Bias



Capacitance(pF)

Bias Voltage(V)



v 2 X W O L Q H ' L P H Q V L R Q V

v 0 D U N L Q J , Q I R U P D W L R Q

í ñ ^ X

1 R W H
$ O O P D U N L Q J L V D W P L G G O H R I W K H S U R G X F W E R G \
$ O O P D U N L Q J L V L Q O D V H U P D U N L Q J
% R G \ F R O R U % O D F N

'LVFODLPHU

7KH LQIRUPDWLRQ SURYLGHG LQ WKLV GRFXPHQW LV LQWHQGHG WR KHOS <RX QDYLJDWH (OHFWURQLF 7HFKQRORJLHV
ULJKW WR PDNH FKDQJHV WR WKH RXWSXW RU WR GLVFRQWLQXH DQ\ SURGXFW DW DQ\ WLPH 3ODFHKROGHU GHVFULSWLRQV
RU RWKHUZLVH

7KH SURGXFW QDPHV GLVSOD\HG KHUH DUH IRU LGHQWLILFDWLRQ SXUSRVHV RQO\ DQG PD\ EH WUDGHPDUNV RI WKHLU
VDYLQJ OLIHV XVH WKDW QRUPDO\ UHTXLUHV SUHFLVH RSHUDWLRQ DQG VWULFW DGKHUHQFH WR SURFHGXUHV
P VXFK LPSURSHU XVH RI VDOH

7KLV SXEOLFDWLRQ SURYLGHV JHQHUDO LQIRUPDWLRQ RQ SURGXFW DSSOLFDWLRQV DQG GHYHORSPHQW LQIRUPDWLRQ
KWWSZZZ \DQJMLHRFRP RQVXOW \RXU QHDUHVW <DQJMLHRFRP RIILFH IRU IXUW