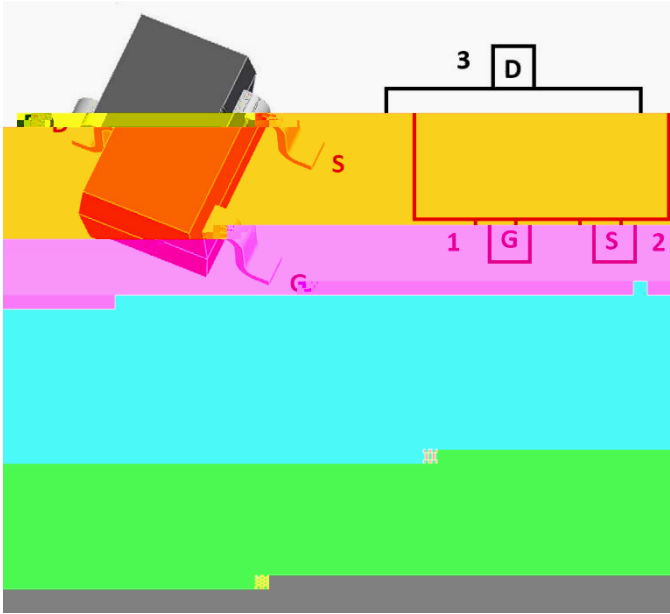


YJL2102WQ

N-Channel Enhancement Mode Field Effect Transistor



Product Summary

" 9₆ 9 \$
" ' 9 \$
" 5₆ 21 DW 9 9 Ø PRKP
" 5₆ 21 DW 9 9 Ø PRKP

General Description

" 7 UHQFK 3 RZHUW 4 D Q 2 6 \$(& 94 0† U P X W 0 4 1 1 R 0 p

Applications

" 3 : 0 DSSOLF DWLRQ
" / RDG VZLWFK

Absolute Maximum Ratings 7 XQOHVV RWKHU ZLVH QRWHG

Parameter		Symbol	Limit	Unit
'UDLQ VRXUFH 9ROWDJH		9 ₆		9
*DWH VRXUFH 9ROWDJH		* ₆	9 "	9
'UDLQ &XUUHQW	7 _s - # 6WHDG\ 6WDWH	'		\$
	7 _s - # 6WHDG\ 6WDWH			
3XOVHG 'UDLQ &XUUHQW		' ₀		\$

	3\$&.,1* &2'('	0DUNLQJ	0,1,080 3\$&.\$*(SF	,11(5 %2; 48\$17,7< S	287(5 &\$572 48\$17,7< S	'(/,9(5< 02'('
<- / :4	)	76				3 UHHO

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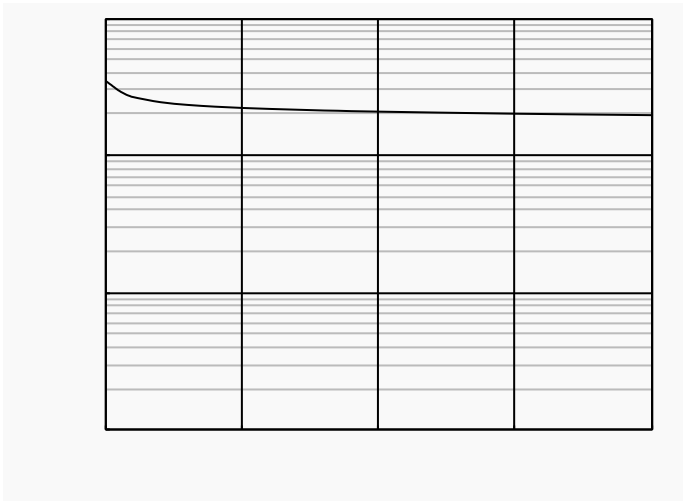
vElectrical Characteristics 7 XQOHVV RWKHUZZLVH QRWHG

Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						
'UDLQ 6RXUFH %UHDNGRZQ 9RQWDJH		* ₆ 9% 9 \$	9			9
=HUR *DWH 9ROWDJH 'UDLQ &XUHQW		' ₆ 9 9 ₆ 9	9			\$
*DWH %RG\ /HDNDJH &XUHQW ₆₆		* ₆ , “ 9 .9 9	9		“	Q \$
*DWH 7KUHVKROG 9ROWDJH * ₆ WK		' ₉ 9 ₆ ' , \$	9			9
6WDWLF 'UDLQ 6RXUFH 2Q 5HYLZYWDQFH		9 ₆ 9 ₆ , \$				P
		9 ₆ 9 ₆ , \$				
'LRGH)RUZDUG 9ROWDJH	₆ '	9 ₆ \$ 9 9	,			9
Dynamic Parameters						
,QSXW &DSDFLWDQFH	LVV	& 9 ₆ 9 9 ₆ 9 I 0 +=				S)
2XWSXW &DSDFLWDQFH	RVV					
5HYHUVH 7UDQVIHU &DSDFLWDQFH	LVV					
Switching Parameters						
7RWDO *DWH &KDUJH	J	4 9 ₆ 9 9 9 ₆ ' , \$				Q &
*DWH 6RXUFH &KDUJH	JV					
*DWH 'UDLQ &KDUJH	JG					
5HYHUVH 5HFRYHU\ &KDUJH	UU	4 ₆ ' \$ GL GW \$ XV				Q &
5HYHUVH 5HFRYHU\ 7LPH	UU		W			
7XUQ RQ 'HOD\ 7LPH	' RQ	W 9 ₆ 9 9 9 ₆ ' , \$ 5 _J				Q V
7XUQ RQ 5LVH 7LPH	U					
7XUQ RII 'HOD\ 7LPH	' RII					
7XUQ RII)DOO 7LPH	I		W			

\$ 5SHSWLWLYH UDWLQJ SXOVH ZLGHUWVXUHQW E\ PD[MXQFWLRQ WHPS
% 'HYLFH PRXQWHG RQ)5 3&% PP [PP [PP

■ Typical Performance Characteristics

)SXXU&KDQ&FWHULVWLFV JXUH 7UDQVLHV&KDUDFWHU



)LJXUH &DSDFLWDQFH &KDUDFWHULVWLFV)LJXUH *DWH &K

)LJXUH 2Q 5HVLVWDQFH &RXLVFDWHHOWDJH)LJXUHJHG&2Q5HVLVWDQFH

)LJXUH 6 'UDLQ &XUUHQW

)RUZDUG FKFDUWHYLNWLH GL

)LJXUH 1RUPDOZQHGRDDMGR

)LJXUH 1RUPDOLJHG 7KUHVK

)LJXUH 0D[LPXP 7UDQVL

YJL2102WQ

Disclaimer

7KH LQIRUPDWLRQ SURYHQLWJHV LQ WKLV IDIRU QHRSKRUHQ (OHFWURQLF 7HFKQRO
ULJKW WR PDNH FKDLFHMRZLWKIRXVSKRWRJURJWERY ILWSOD\HG KHUHLQ WRGHPVLUYR
RWKHUZZLVH

7KH SURGXFW OLVWJHGHWRLEQLXWBGVZLWKFDXWRREVRQHRQRWWGHQLBGLFDO OL
VDYLQJ OLIHVXVWDLQJMRH RUODQHQHROXIPMVQRKUHVSRQGLELQEW\QRWGPDUH
PVXFK LPSURSHU XVH RI VDOH

7KLV SXEOLFDWLRQ SXVSHUWIDG\VLQURUPDWSRQLSGHYRLRXDGLRWLRSQDOLQWPLW RX
KWV [VZ](#) [\DQJMLH](#) FRPRQVXOW \RXHUHQVDOHHWWRGLQMLRWDOBWKHU D