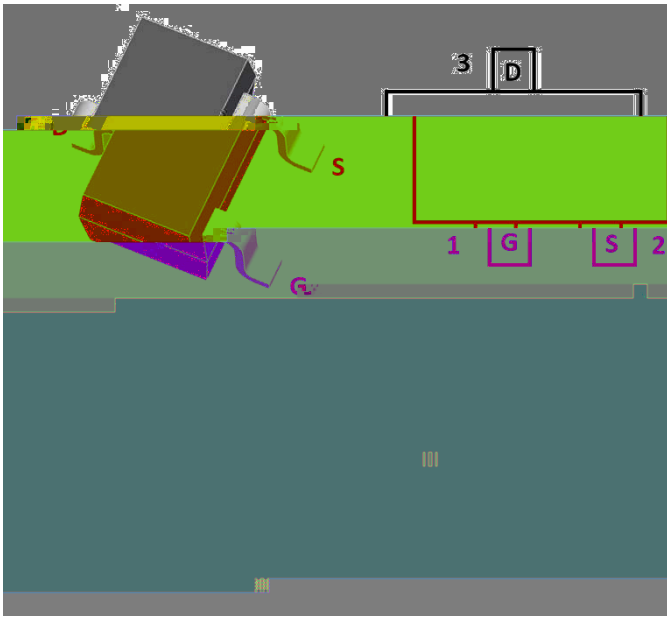


YJL2102WQ

N-Channel Enhancement Mode Field Effect Transistor



Product Summary

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

General Description

" 7 UHQFK 3RZHUPHD QZ6\$((& 94 0† UPXW QJIE RQD

Applications

" 3:0 DSSOLFDWLRQ
 " /RDG VZLWFK

Absolute Maximum Ratings

Parameter	Symbol	Limit	Unit
'UDLQ VRXUFH 9ROWDJH	9 ₆		9
*DWH VRXUFH 9ROWDJH	* ₆	9 "	9
'UDLQ & XUHQW	7 _s - # 6WHDG\ 6WDWH	;	\$
	7 _s - # 6WHDG\ 6WDWH		
3XOVHG 'UDLQ & XUHQW	' 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 9RQW DJH		6 9% 9 \$	9			9
=HUR *DWH 9ROWDJH 'UDLQ & XUHQW		6 9 9 9	9			\$
*DWH %RG\ /HDNDJH & XUHQW		6, " 9 9 9	9		"	Q\$
*DWH 7KUHVKROG 9ROWDJH		9 9 9 , \$	9			9
6WDWLF 'UDLQ 6RXUFH 2Q 5HYLWVWDQFH		9.6 9. , \$				P
		9.6 9. , \$				
'LRGH)RUZDUG 9ROWDJH		9 6 \$ 9 9				9
Dynamic Parameters						
.QSXW & DSDFLWDQFH	LVV	&				S)
2XWSXW & DSDFLWDQFH	RVV	9.6 & 9 9 9 0 +=				
5HYHUVH 7UDQVIHU & DSDFLWDQFH		&				
Switching Parameters						
7RWDO *DWH & KDUJH	J	4				Q&
*DWH 6RXUFH & KDUJH	JV	4.6 9 9 9 , \$				
*DWH 'UDLQ & KDUJH	JG	4				
5HYHUVH 5HFRYHU\ & KDUJH	UU	4				Q&
5HYHUVH 5HFRYHU\ 7LPH	UU	6' \$ GL GW \$ XV W				QV
7XUQ RQ 'HOD\ 7LPH	' RQ	W				QV
7XUQ RQ 5LVH 7LPH	U	W 9.6 9 9 9 , \$				
7XUQ RII 'HOD\ 7LPH	' RII	W 5J				
7XUQ RII)DOO 7LPH	I	W				

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

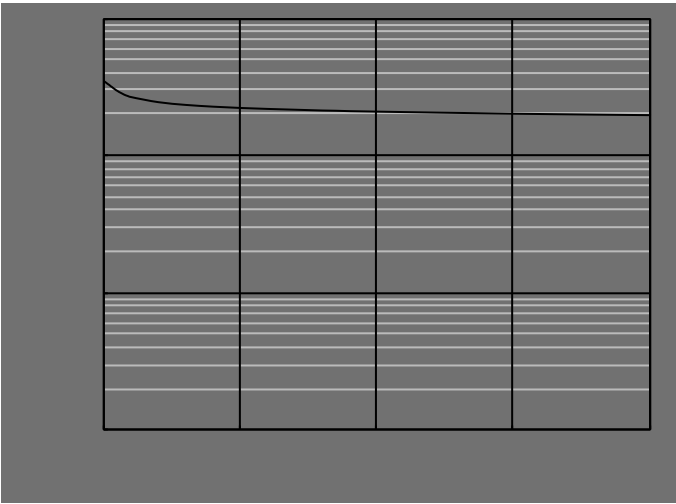
YJL2102WQ

Typical Performance Characteristics

)SXXU & KDUFWHULVWLFV

JXUH

7UDQVIHU & KDUDFWHU



)LJXUH & DSDFLWDQFH & KDUDFWHULVWLFV

)LJXUH *DWH & K

)LJXUH 2Q 5HVLVWDFR XVFDWHHOWDJH

)LJXUH JHG ROP 5HVLVWDFR

YJL2102WQ

)LJXUH 06 'UDLQ &XUUHQW

)RUZDUG FKDFWDEJWUWHYNWVH GL

)LJXUH 1RUPDOZQHYGRDUWDDJNGR

)LJXUH 1RUPDOLJHG 7KUHVK

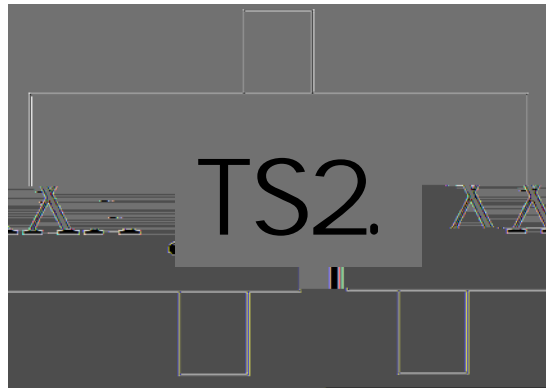
)LJXUH 0D[LPXP 7UDQVL

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vSOT-323 Package Information



vMarking Information



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1RWH
$OO PDUNLQJ LV DW PLGGOH RI WKH SURGXFW ERG\
$OO PDUNLQJ LV LQ ODVHU PDUNLQJ
TS2 LV ODUNLQJ &RGH
%RG\ FRORU %ODFN
    
```

YJL2102WQ

Disclaimer

7KH LQIRUPDWLRQ SURFHDQHG LQ WKLV HQRXJKHQ (OHFWURLF 7HFKRO
ULJKW WR PDNH FKDLFHMRZLWKIRXVSKRFRSURIWV ERQ ILWSODHG KHUHLQ WRGHPVLUYR
RWKHUZZLVH

7KH SURGXFW OLVWJHGHMIRLEH LXV BSHZLWHKFDXVRQERVQHRQRXWGHQLBGLFDO OL
VDYLQJ OLIHVXVWDLQDQJMRH RUODLQHQHROXIPMV ERKUHVSEQLLQIRW\RWGQPDUF
P VXFK LPSURSHU XVH RI VDOH

7KLV SXEOLFDFWRQ SVXSHUW HGHVLQURQVXLSROQLSHYRLR XDGIRQLFODHVLVWRUPLW RX
KWVZ \DQJMLHRFRPRQVXOW \RXUHQHDOHWWRDQJMLRWDQHWKHU D