



YJGD5D0G04HHQ

N-Channel and N-Channel Complementary MOSFET

Product Summary

" 9₆ 9
" ' 9
" 5₆ 21 DW 9 9 Ø P
" (\$6 7HVWHG
" j 9₆ 7HVWHG

General Description

" 6SOLW *DWH 7UHQFK 026)(7 WHFKQRORJ
" ([FHOOHQW SDFNDJH IRU KHDW GLVVLSD
" +LJK GHQVLW\ FHOQ GHVLJQ IRU ORZ 5
" 0RLVWXUH 6HQVLWLWLW\ /HYHO
" (SR[\ 0HHWV 8)ODPDELOLW\ 5DWLQJ
" +DORJHQ)UHH
" 3DUW QR ZLWKHQVQL\$(& 4 TXDOLILHG

Applications

" '& &RQYHUWHUV
" 3RZHU PDQDJHPHQW IXQFWLRQV
" :LUHOHVV FKDUJLQJ

Absolute Maximum Ratings 7 XQOHVV RWKHUZZLVH QRWHG

Parameter			Symbol	Limit	Unit	
'UDLQ VRXUFH 9ROWDJH			9 ₆		9	
*DWH VRXUFH 9ROWDJH			* ₆	9 “	9	
&RQWLQXRXV 'UDLQ &XUUHQW 1RWH	6WHDG\ 6WDWH	7 _s -				
&RQWLQXRXV 'UDLQ &XUUHQW 1RWH	6WHDG\ 6WDWH	7 _{&} -				
		7 _{&} -				
3XOVHG 'UDLQ &XUHQW —V			9 ₀		\$	
\$YDODQFKH HQHUJ\ 9 5 9 / P+ , \$6 \$			(\$ 6		P -	
7RWDO 3RZHU 'LVVLSDWLRO 1RWH	6WHDG\ 6WDWH	7 _s -	3		:	
		7 _s -				
7RWDO 3RZHU 'LVVLSDWLRO 1RWH	6WHDG\ 6WDWH	7 _{&} -				
		7 _{&} -				
-XQFWLRQ DQG 6WRUDJH 7HPSHUDWXUH 5DQJH			- 7 ₇ *	7	-	

Thermal resistance

Parameter	Symbol	Typ	Max	Units
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vElectrical Characteristics 7 XQOHVV RWKHUZZLVH QRWHG

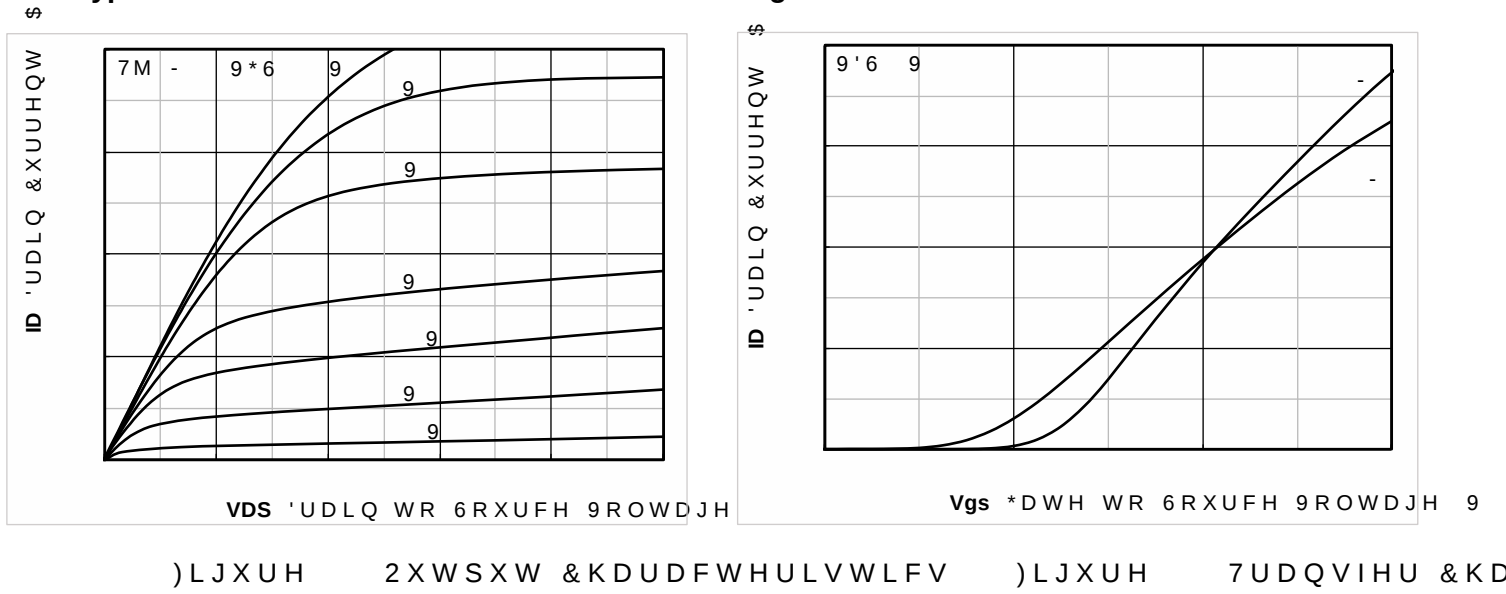
Parameter	Symbol	Conditions	Min	Typ	Max	Units
Static Parameter						
'UDLQ 6RXUFH %UHDNGRZQ 9ROWDJH		9 ₋₆ 9 ₋₁ , \$				9
		9 ₋₆ 9 ₋₁ , P\$				9
=HUR *DWH 9ROWDJH 'UDLQ &XUHHQW		9 ₋₆ 9 ₋₉ 9				\$
		9 ₋₆ 9 ₋₉ 9 7M -				
*DWH %RG\ /HDNDJH &XUHHQW		* ₆ , “ 9 ₋₉ 9	9		“	Q \$
*DWH 7KUHVKROG 9ROWDJH	* ₆ WK	:9 9 ₆ ₋₁ , \$	9			9
6WDWLF 'UDLQ 6RXUFH 2Q 5HVLVWDQFH	₆₋₂₁	* ₆ 9 5 , \$	9			P
'LRGH)RUZDUG 9ROWDJH	₆	9 ₆ \$ ₋₉ 9	,			9
*DWH UHVLVWDQFH	*	5 0+]				
OD[LPXP %RG\ 'LRGH &RQWLQXR XV		&XUHHQW ,				\$
Dynamic Parameters						
,QSW &DSDFLWDQFH	LVV	& 9 ₋₆ & 9 ₋₉ 9 0+]				S)
2XWSXW &DSDFLWDQFH	RVV					
5HYHUVH 7UDQVIHU &DSDFLWDQFH						
Switching Parameters						
7RWDO *DWH &KDUJH	J	4 9 ₋₆ 9 ₋₉ 9 ₋₁ , \$				Q &
*DWH 6RXUFH &KDUJH	JV					
*DWH 'UDLQ &KDUJH	JG		4			
5HYHUVH 5HFRYHU\ &KDUJH	UU	4				Q &

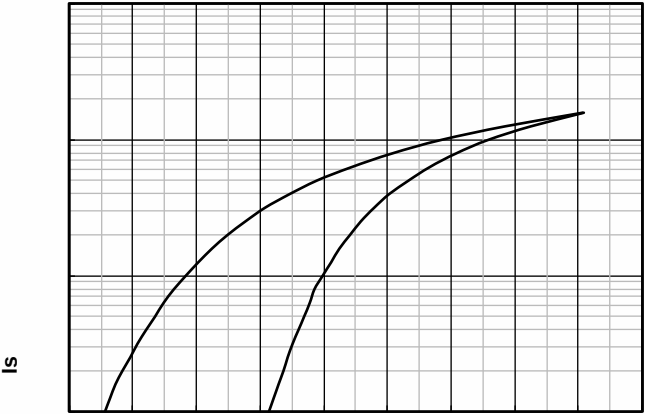
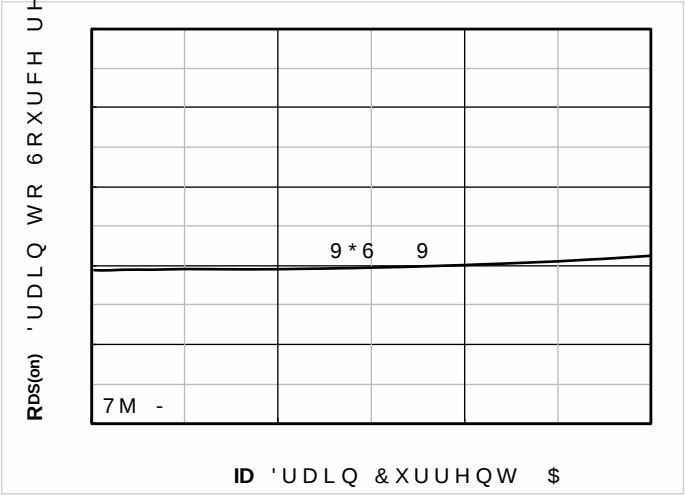
>À QFH'4,P & U5-4"@À



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Typical Electrical and Thermal Characteristics Diagrams

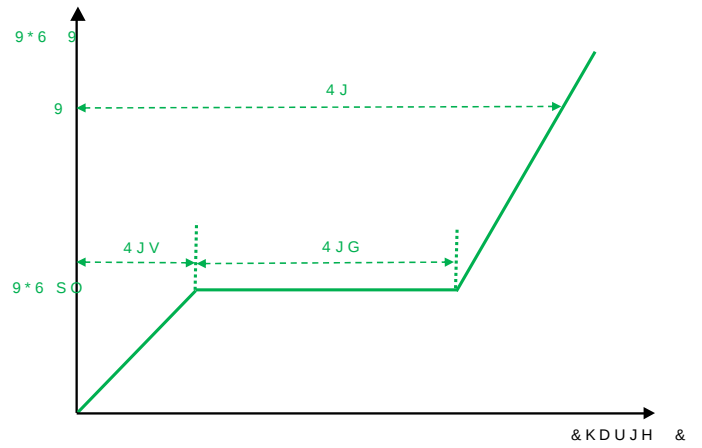
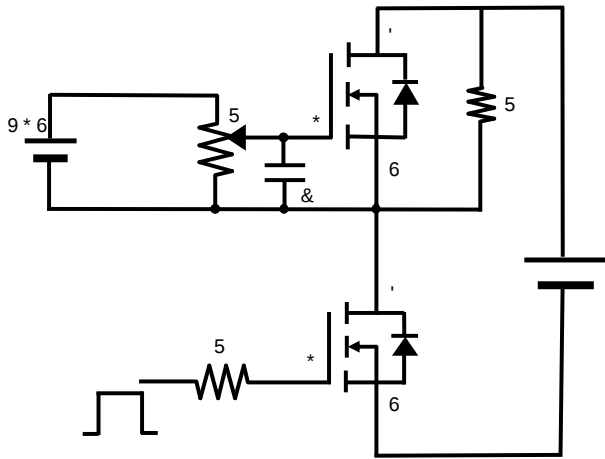




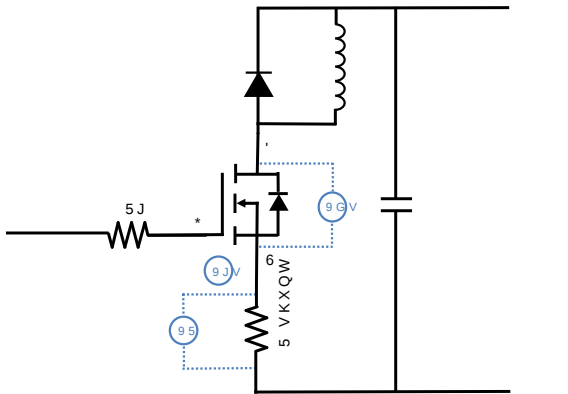
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) L J X U H D W H & K D U J H U F X V W & : D Y H I R U P







7KLVSXEOLFDFWLRQISXDSFHUWIDGHOVLQURQAPVXLSFQLISGHYRLRXDVGILVQLFSQDHOVLQVRHMLWWFSLX
[ZZZ](#) \DQJMLHRURPQVXOW\RLXUH\QVH\DFH\VRB\QVW\KW\DFH