



HTM150A02

9 'XDO 1 &K 3RZH

Feature

- High Speed Power Switching, Logic Level
- Enhanced Avalanche Ruggedness
- 100% UIS Tested 100% Rg Tested
- Lead Free, Halogen Free

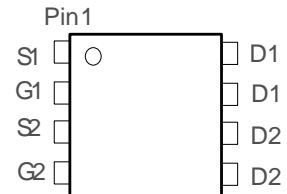
V_{DS}		20	V
$R_{\theta JC}$	$V_{GS}=4.5V$	13	m:
I_D		7	A

Application

- Hard Switching and High Speed Circuit
- DC/DC Telecoms and Industrial

DFN3

3DUW 1XPEH3DFNDJH DUNLQJ
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Absolute Maximum Ratings at T_j		XQOHVV RWKHUZZLVH VSHFLILHG	
3DUDPHWHU	Symbol	&RQGLWLR	Value Unit
&RQWLQRRXV 'UDLQ &XUUHQW	T_C		7 A
	T_C		5
'UDLQ WR 6RXUFH 9ROWDJH V_{DS}			20 V
*DWH WR 6RXUFH 9ROWDJH V_{GS}			±12 V
3XOVHG 'UDLQ &XUUHQW	I_{DM}		28 A
\$YDODQFKH (QHJ\ 6LQJQH BXOVH P_{c7}			5.0 P-
3RZHU 'LVVLSDWLRQ	P_D	T_C	2 :
2SHUDWLQJ DQG 6WRUDJH 7HPHSHUDWXUH			-55 to 150

Absolute Maximum Ratings

3DUDPHWHU	Symbol	Max	Unit
7KHUPDO 5HVLVWDQFH -XQFWLRQ \$PELHQW	$R_{\theta JC}$	62.5	:
7KHUPDO 5HVLVWDQFH -XQFWLRQ &DVHRT-&	$R_{\theta JA}$	25	:

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(OHFWULFDO & KDUDFWKHUHWL RWDHU ZLVH VSHFLILHG
6WDWLF & KDUDFWHULVWLFV

3DUDPHWHU	Symbol	& RQGLWLRQ	Value			Unit
			min	max	Unit	
'UDLQ WR 6RXUFH %UMDN GRZQ 9RQWDJH	V_{GS}	$V_{GS} = V_{DS}$	20	-	-	V
*DWH 7KUHVKROG 9ROWDJH	V_{GS}	$V_{GS} = V_{DS}$ $I_D = 250 \mu A$	0.4	0.8	1.2	V
=HUR *DWH 9ROWDJH	V_{GS}	$V_{GS} = 9 V$ $I_D = 9 \mu A$	-	-	1	μA
*DWH WR 6RXUFH /HDNDJH & XUHQW	V_{GS}	$V_{GS} = 9 V$ $I_D = 9 \mu A$	-	-	25	μA
'UDLQ WR 6RXUFH RQ 5HYLVWDQFH	V_{GS}	$V_{GS} = 9 V$ $I_D = 7 A$	-	13	15	mV
7UDQVFRQGXFWDQFH	V_{GS}	$V_{GS} = 9 V$ $I_D = 5 A$	-	19	23	mV
7UDQVFRQGXFWDQFH	V_{GS}	$V_{GS} = 9 V$ $I_D = 7 A$	-	9	-	S

'\QDPLF & KDUDFWHULVWLFV

,QSW & DSDFLWDQFH	C_{iss}		-	700	-	
2XWSXW & DSDFLWDQFH	C_{oss}	$V_{GS} = 9 V$ $I_D = 9 A$ I_{0+}	-	208	-	S)
5HYHUVH 7UDQVIHU & DSDFLWDQFH	C_{ov}		-	187	-	
7RWDO *DWH & KDUJH	Q_g		-	10	-	
*DWH WR 6RXUFH & KDUJH	Q_{g1}	$V_{DD} = 9 V$ $I_D = 4.5 V$	-	1.8	-	nC
*DWH WR 'UDLQ 0LOOHU & KDUJH	Q_{g2}		-	3.7	-	
7XUQ RQ 'HOD\ 7LPH	t_{GRQ}		-	15	-	
Rise time	t_U	$V_{DD} = 9 V$ $I_D = 9 A$	-	20	-	ns
7XUQ RII 'HOD\ 7LPH	t_{GR11}	$R_G = 6 \Omega$	-	30	-	
)DOO 7LPH	t_I		-	20	-	

5HYHUVH 'LRGH & KDUDFWHULVWLFV

'LRGH)RUZDUG 9ROWDJH				1.2		V
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Hunteck

)LJ 7\SLFDO 2XWSXW &KDUDFWHULVWL 7\SLFDO 6RXUFH 9ROWD

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)LJXUH 2Q 5HVLVWDQFH YV 'UDLQ &XUJHQWHDQGIRDWDIOLELWZOH5HVLVWDQFH YV -XQFWL

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)LJXUH 7\SLFDO 7UDQVIHU &KDUDFWHUJLWXLUFV 7\SLFDO 6RXUFH 'UDLQ 'LRGH)RUZDUG 9R

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Hunteck

)LJXUH 7\SLFDO *DWH &KDUJH YV *DWH)LWXRURXU7ASLFFDOWDDSDFLWDQFH YV 'UDLQ WR 6RX

)LJXUH 0D[LPXP 6DIH 2SHUDWLQJ \$UHD)LJXUH 6LQJOH 3XOVH 0D[LPXP 3RZHU 'LVVLSDWL

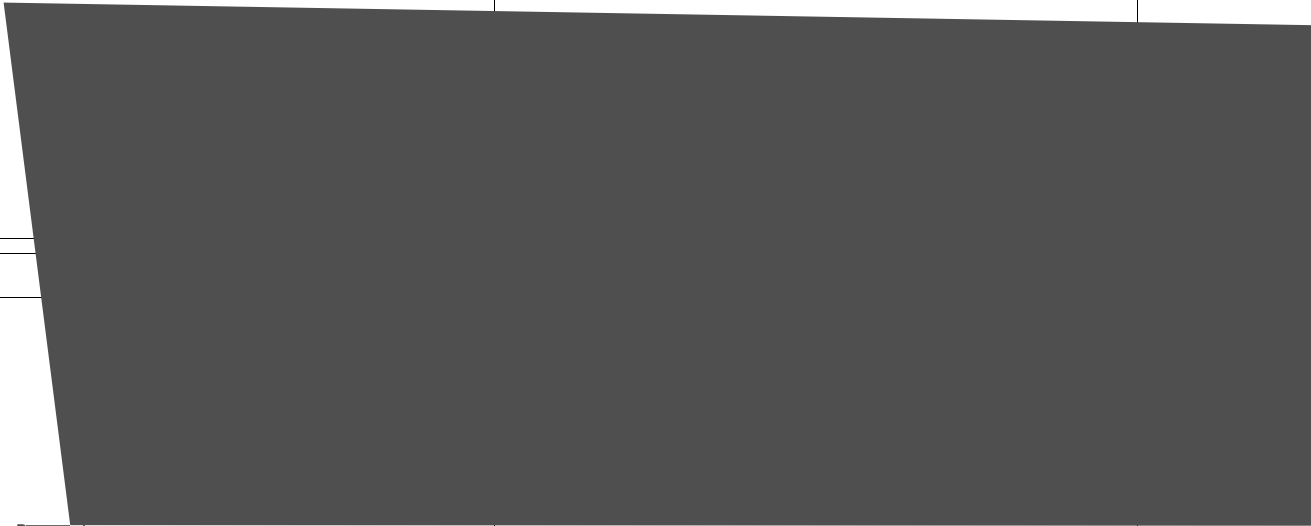
)LJXUH 1RUPDOLJHG 0D[LPXP 7UDQVLHQW 7KHUPDO ,PSHGDQFH -XQFWLRG	


,QGXFVLYH VZLWFKLQJ 7HVW

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*DWH &KDUJH 7HVW

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'LRGH 5HFRYHU\ 7HVW

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Hunteck

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3DFNDJH 2XWOLQH

') 1 [B 3 OHDGV

Dimension in mm