



HTJ200N02

9 1 & K 3 R Z H U (

Feature

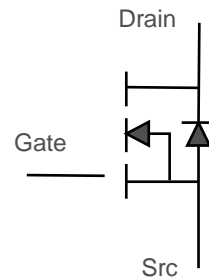
- High Speed Power Switching, Logic Level
- Enhanced Avalanche Ruggedness
- 100% UIS Tested / 100% Rg Tested
- Lead Free, Halogen Free

V_{GS}	20	V
$R_{DS(on)}$ @ $V_{GS}=10V$	18	mΩ
I_{DM} (LPLW)	6	A

Application

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

SOT23

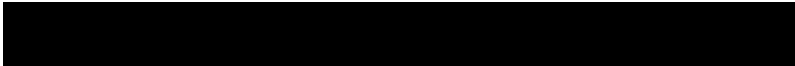


3 DUW 1 XPEH3DFNDJH DUNLQJ
HTJ200N02 6 2 7 10

Absolute Maximum Ratings at T_j		X Q O H V V	R W K H U Z L V H	V S H F L I L H G	Value	Unit
I_{OL}	T_A	6			6	A
I_{RM}	T_A	4			4	A
V_{DS}		20			20	V
V_{GS}		±12			±12	V
I_{DM}		24			24	A
P_D	T_A					:
T_{stg}		-55 to 150			-55 to 150	°C

Absolute Maximum Ratings

3 D U D P H W H U	6 \ P E R O	Max	Unit
$R_{th(j-c)}$	100	100	°C/W



(OHFWULFDO & KDUDFWHULVWLFV
 6WDWLF & KDUDFWHULVWLFV

3DUDPHWHU	6\PEF	&RQGLWLRQ	min	Value	max	Unit
'UDLQ WR 6RXUFH %UMDN GRZQ 9ROWDJH	$V_{DD} = V_{DD} = 250 \text{ mA}$		20	-	-	V
*DWH 7KUHVKROG 9ROWDJH	$V_{DD} = V_{DD} = 250 \text{ mA}$		-	-	1	FA
=HUR *DWH 9ROWDJH IUDLQ & XUHQW	$V_{DD} = V_{DD} = 250 \text{ mA}$		-	-	10	FA
*DWH WR 6RXUFH /HDNDJH & XUHQW	$V_{DD} = V_{DD} = 250 \text{ mA}$		-	-	± 100	nA
'UDLQ WR 6RXUFH RQ 5HYLVWDQFH	$V_{DD} = V_{DD} = 250 \text{ mA}$		-	18	20	m :
7UDQVFRQGXFWDQFH g_{IV}	$V_{DD} = V_{DD} = 250 \text{ mA}$		-	28	-	6

,QSXW & DSDFLWDQFH C_{iss}				560	-	
2XWSXW & DSDFLWDQFH C_{oss}	$V_{DD} = V_{DD} = 250 \text{ mA}$		-	166	-	S)
5HYHUVH 7UDQVIHU & DSDFLWDQFH			-	150		
			-			
	$V_{DD} = V_{DD} = 250 \text{ mA}$					
*DWH WR 'UDLQ 0LOOHU & KDUDJH			-	12		
						ns
				15		

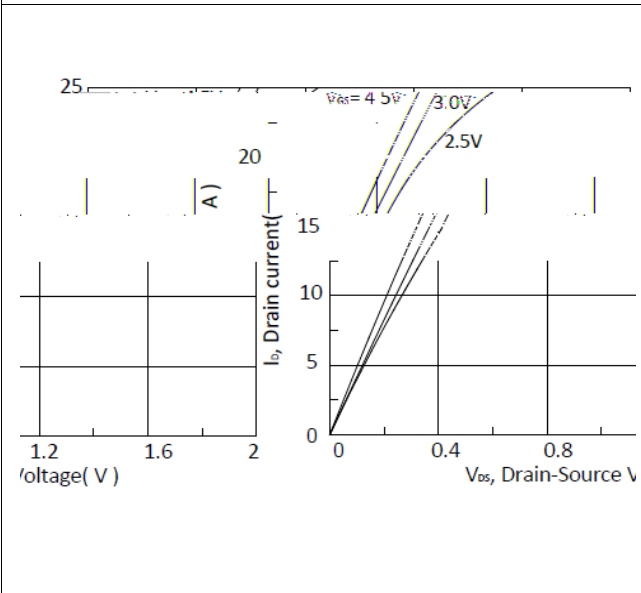
5HYHUVH 'LRGH & KDUDFWHULVWLFV						
'LRGH)RUZDUG 9ROWDJH	$V_{DD} = V_{DD} = 250 \text{ mA}$		-			V



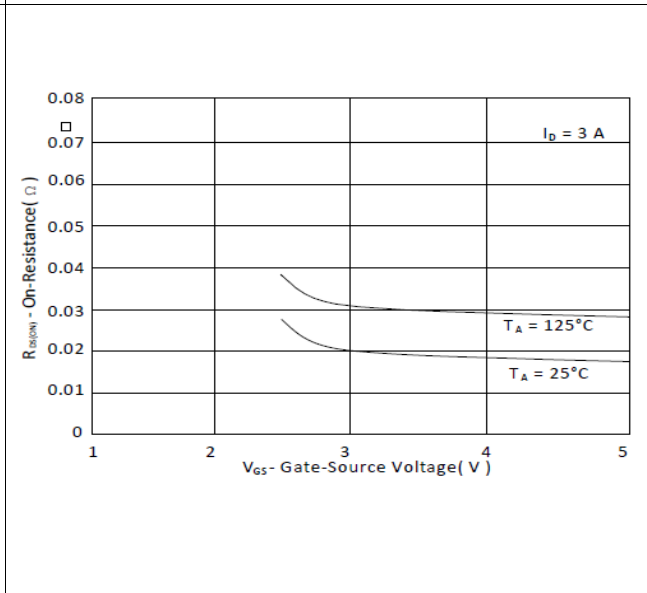
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Huntech

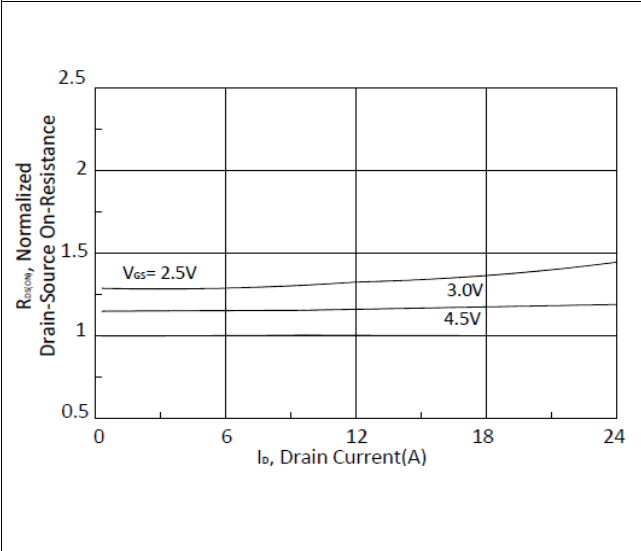
)LJ 7\SLFDO 2XWSXW &KDUDFWHULVWL



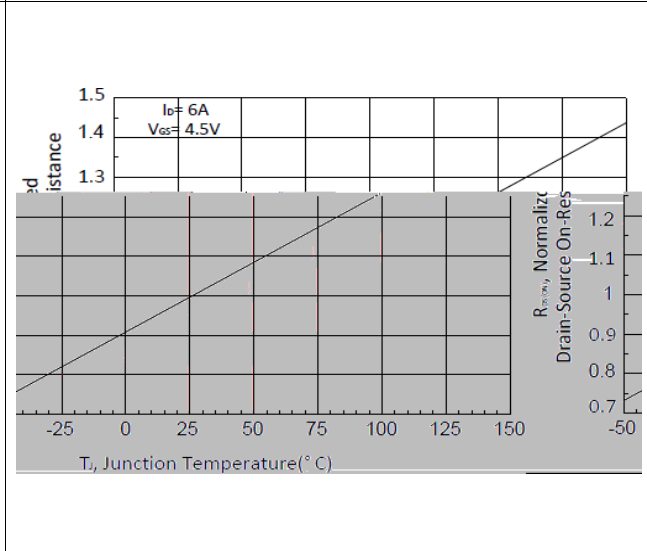
5\JXUH 2Q 5HVLVWDQFH YV *DWH 6RXUFH 9ROWD



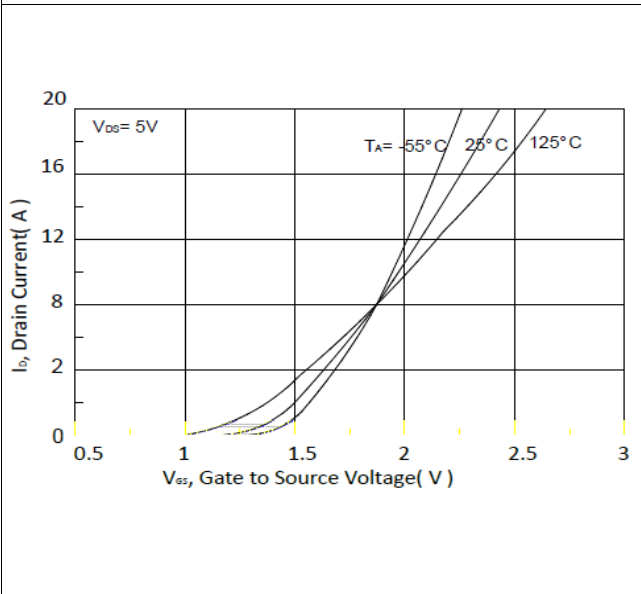
)LJXUH 2Q 5HVLVWDQFH YV 'UDLQ &XU



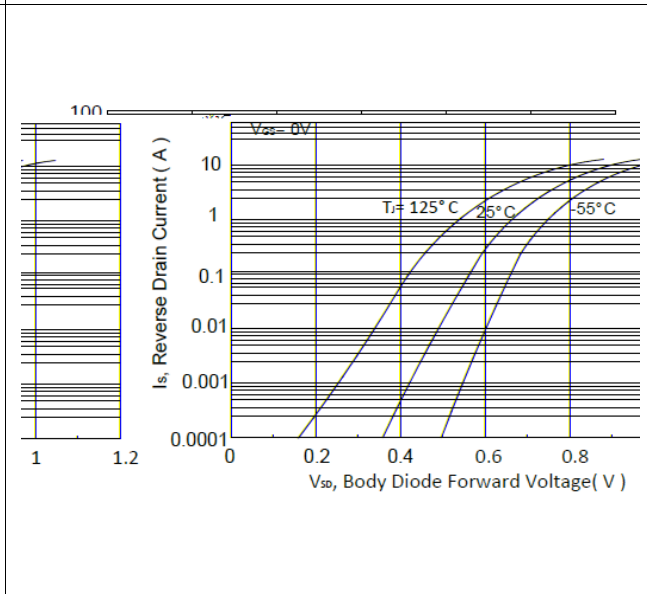
5\JXUH 2Q 5HVLVWDQFH YV 'UDLQ &XU



)LJXUH 7\SLFDO 7UDQVIHU &KDUDFWHU



5\JXUH 7\SLFDO 6RXUFH 'UDLQ 'LRGH

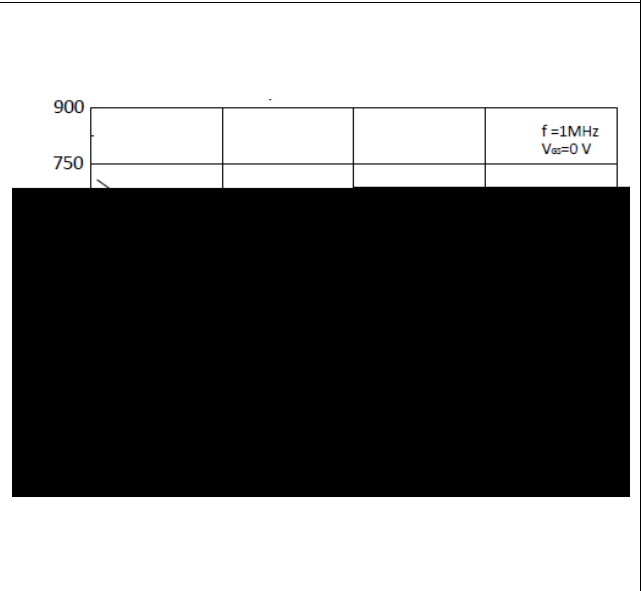
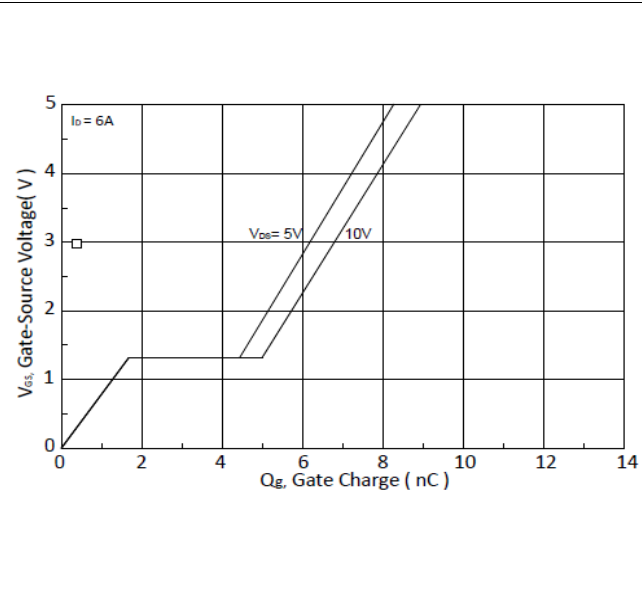




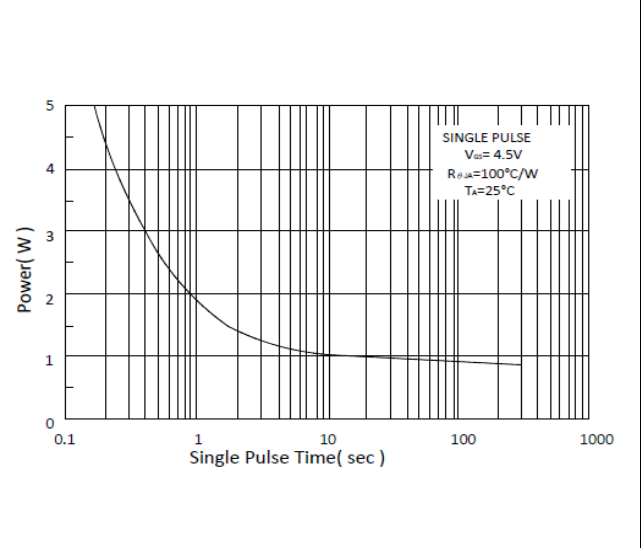
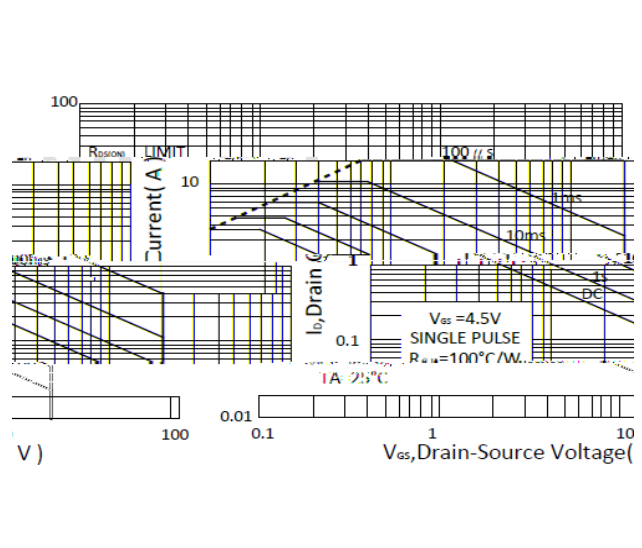
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Huntech

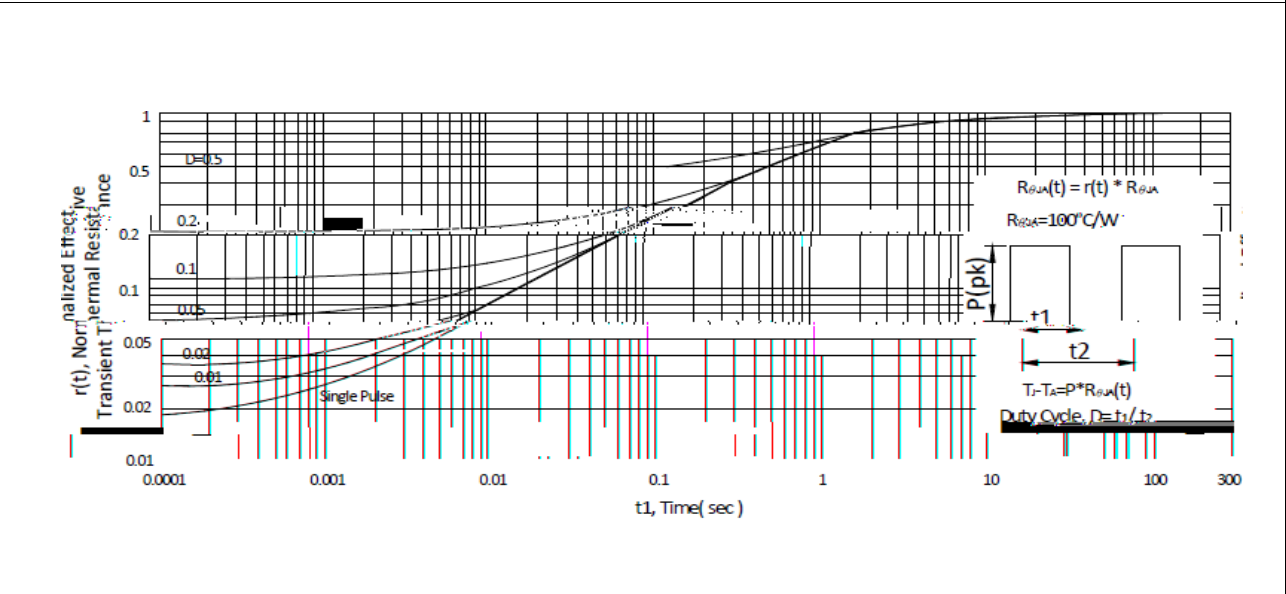
)LJXUH 7\SLFDO *DWH &KDUJH YV *DWJHLWXRURHRXU7A8L9FD00W0DSDSDFLWDQFH YV 'UDLQ WR 6RX



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



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



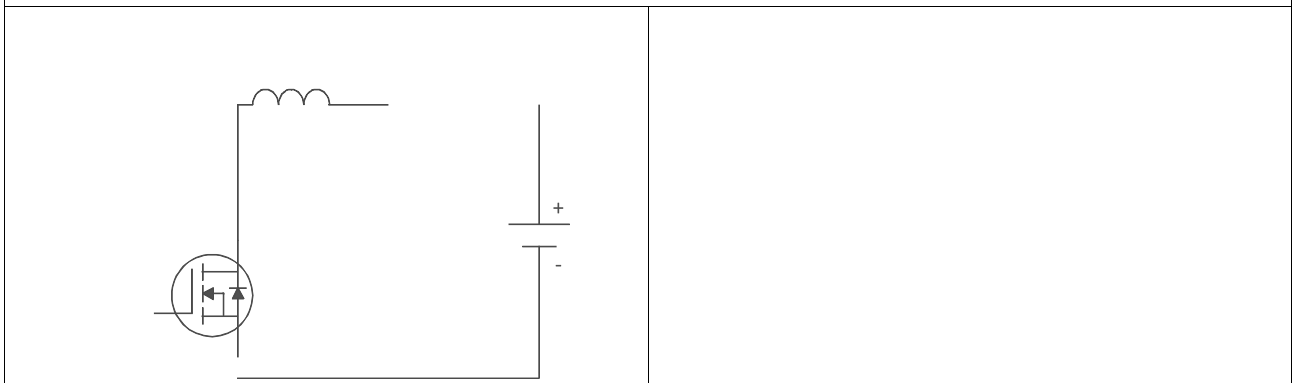
,QGXFPLYH VZLWFKLQJ 7HVW

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*DWH &KDUJH 7HVW

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8FODPSHG ,QGXFPLYH 6ZLWFKLQJ 8,6 7HVW

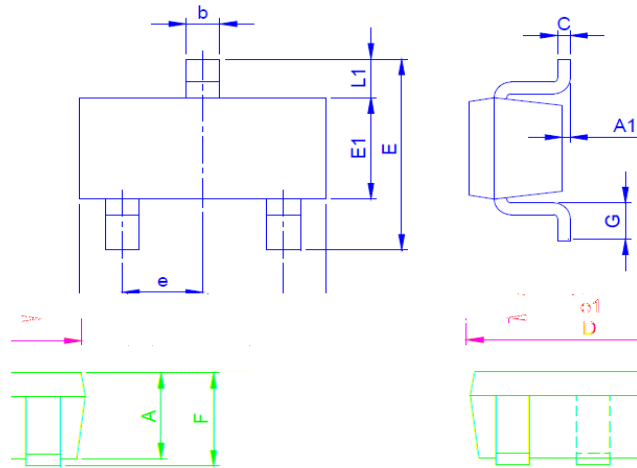


'LRGH 5HFRYHU\ 7HVW

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3DFNDJH 2XWOLQH

627 OHDGV



Dimension in mm

Dimension	A	A1	A2	b	C	D	E	E1	e	e1	F	G	L1
Min	0.7	0		0.35	0.1	2.8	2.6	1.5	0.9		0.8	0.3	0.55

