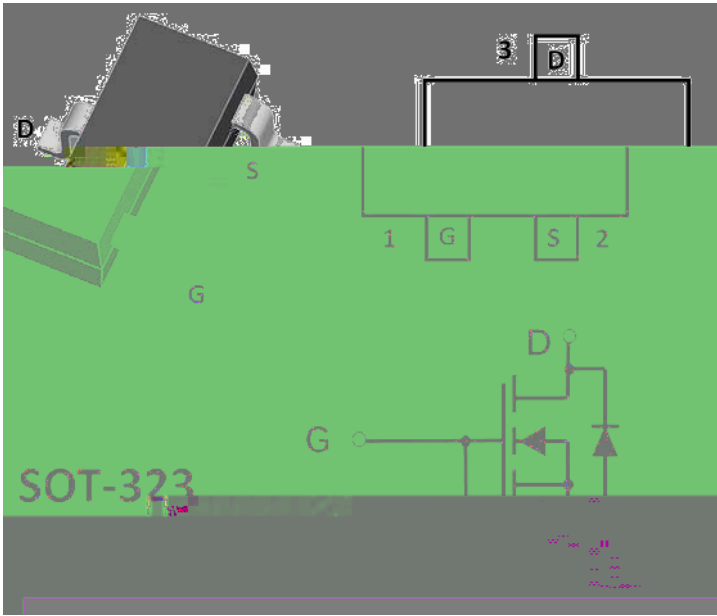


2N7002KCWQ

RoHS
COMPLIANT



DW 9 9 Ø RKP
" 56 21 DW 9 9 Ø RKP
" *DWH 6RXUFH Q6' 85DWR .9 +%0

General Description

" 7UHQFK 3RZHU 09 026)(7 WHFKQRORJ\
" 9ROWDJH FRQWUROOHG VPDOO VLJQDO V\
" /RZ LQSXW &DSDFLWDQFH
")DVW 6ZLWFKLQJ 6SHHG
" /RZ ,QSXW 2XWSXW /HDNDJH
" 3DUW QR ZLWRKHVXIVL\$(344 TXDOLILHG

Applications

" %DWWHU\ RSHUDWHG V\ VWHPV
" 6ROLG VWDWH UHOD\ V
" 'LUHFW ORJLF 077/H0020 WHUIDFH

v Absolute Maximum Ratings 7 XQOHVV RWKHU ZLVH QRWHG

Parameter	Symbol	Limit	Unit
'UDLQ VRXUFH 9ROWDJH	V_{GS}	9	V
*DWH VRXUFH 9ROWDJH	V_{DS}	9	V
'UDLQ & XUHHQW	I_{GS} - # 6WHDG\ 6WDWH I_{GS} - # 6WHDG\ 6WDWH		mA
3XOVHG 'UDLQ & XUHHQW	I_{DS}	10	mA
7RWDO 3RZHU 'LVVLSDWLRQ # 7	P_{tot}	300	mW
7KHUPDO 5HVLVWDQFH -XQFWLRQ WR \$PELHQW # 6WHDG\ 6WDWH	$R_{\theta(jc)}$	5	°C/W
-XQFWLRQ DQG 6WRUDJH 7HPSHUDWXUH 5DQJH - 77	T_{stg}	7	°C

v Ordering Information ([DP SOH

PREFERRED P/N	PACKING CODE	Marking	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1 .& : 4)	.&				3 UHHO



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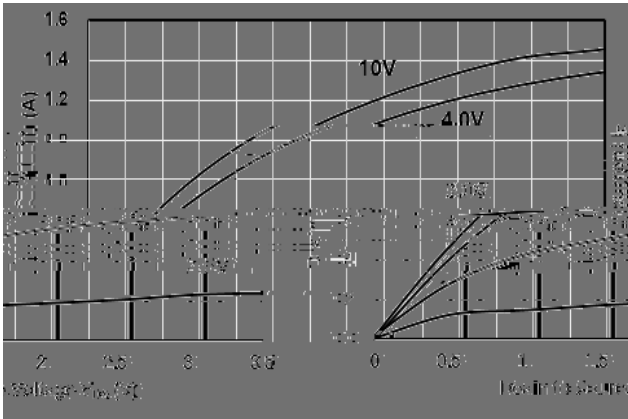
vElectrical Characteristics 7 XQOHVV RWKHUZZLVH QRWHG

Parameter	Symbol	Conditions	Min	Typ	Max	Units
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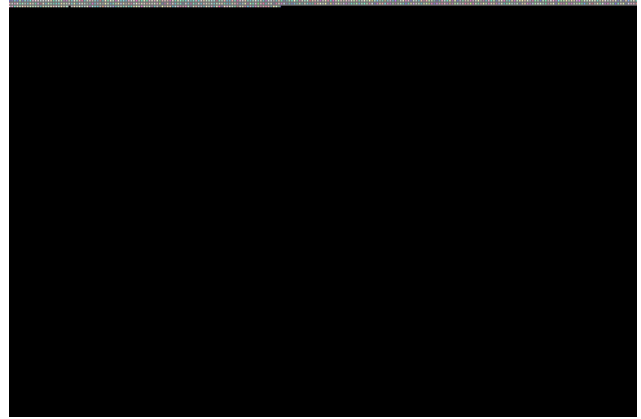


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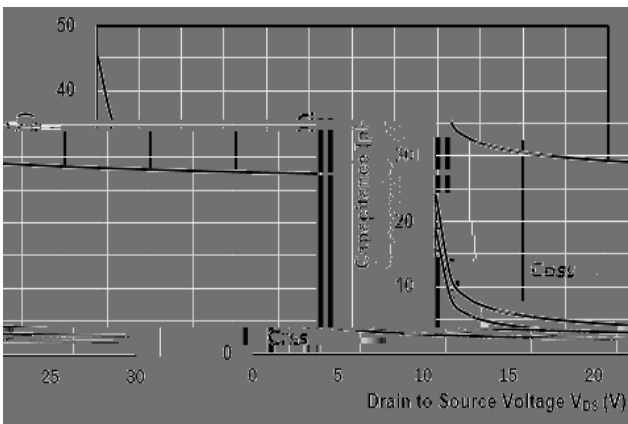
Typical Performance Characteristics



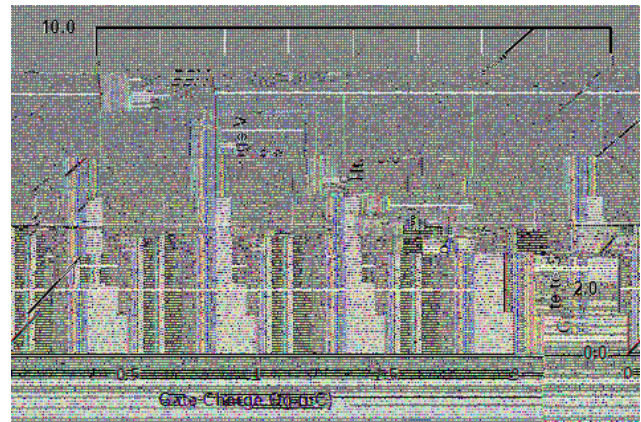
Graph showing Drain Current (ID) vs. Drain-Source Voltage (VDS) for various Gate-Source Voltages (VGS).



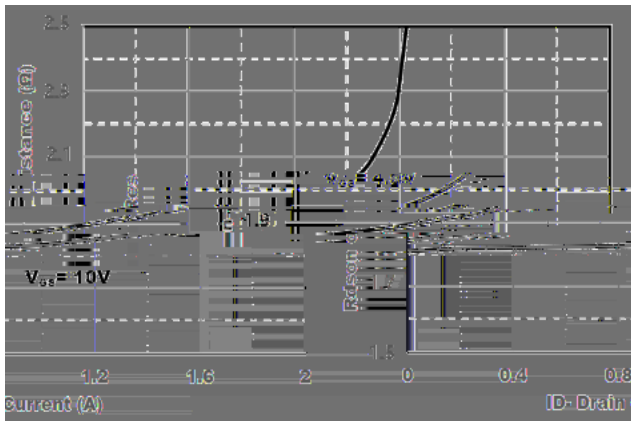
Graph showing Drain Current (ID) vs. Drain-Source Voltage (VDS) for various Gate-Source Voltages (VGS).



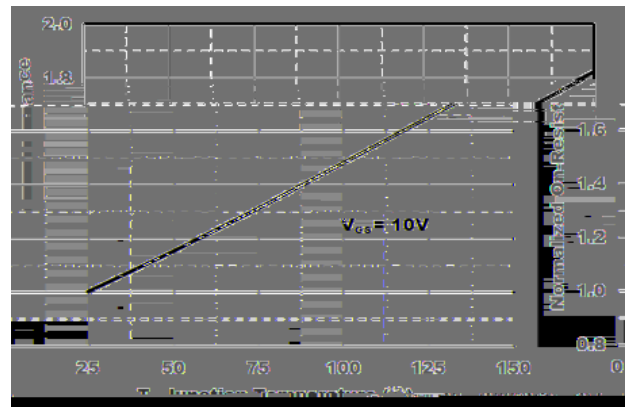
Graph showing Capacitance vs. Drain to Source Voltage (VDS).



Graph showing Gate Charge (QG) vs. Drain Current (ID).



Graph showing Drain Current (ID) vs. Drain-Source Voltage (VDS) for various Gate-Source Voltages (VGS).



)LJXUH 6DIH 2SHUDWLRQ \$UHD

LQJ ZDYH LJXUH

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<DQJ]KRX <DQJMLH (OHFWURQLS <pHF[RR_B_]À (BQPö (



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Disclaimer

7KH LQIRUPDWLRQ SGRVHQMHG LQ IRWLVHDIHQJHQRK<BQOMLH (OHFWURQLF 7HFKQRO
ULJKW WR PDNH F'JHLVHZILRUKRXXWH QSWFLSLURDQXIFRQ/ RGLWSOD\HG KHUHLQ WURGLPVSURQY
RU RWKHUZLVH

7KH SURGXFW OLVWJCHSHWRIHQ LXV BSHZLW'KHFDUFRQFHWLYGHVLJQHG IRU XVH LQ PHG
VDYLQJ OLIHVXVWBDQJULHRURUPpOH\BQHW DQ LXPHEHQK UHVLSEQOLELQIRW\BQWGPDUH
P VXFK LPSURSHU XVH RI VDOH

7KLV SXEOLFDFWLRQ SVXDSFHUW HDGVLQURQ#R DWKISFS QLSHG Y)IRRXDQGLRQV LRO HDO/ H QMHRVLPW R X
KWVZ [Z](#) \DQJMLHRFRP `€p0\RXU B#D VHDVM V BQILMHW URWDQBWKHU D