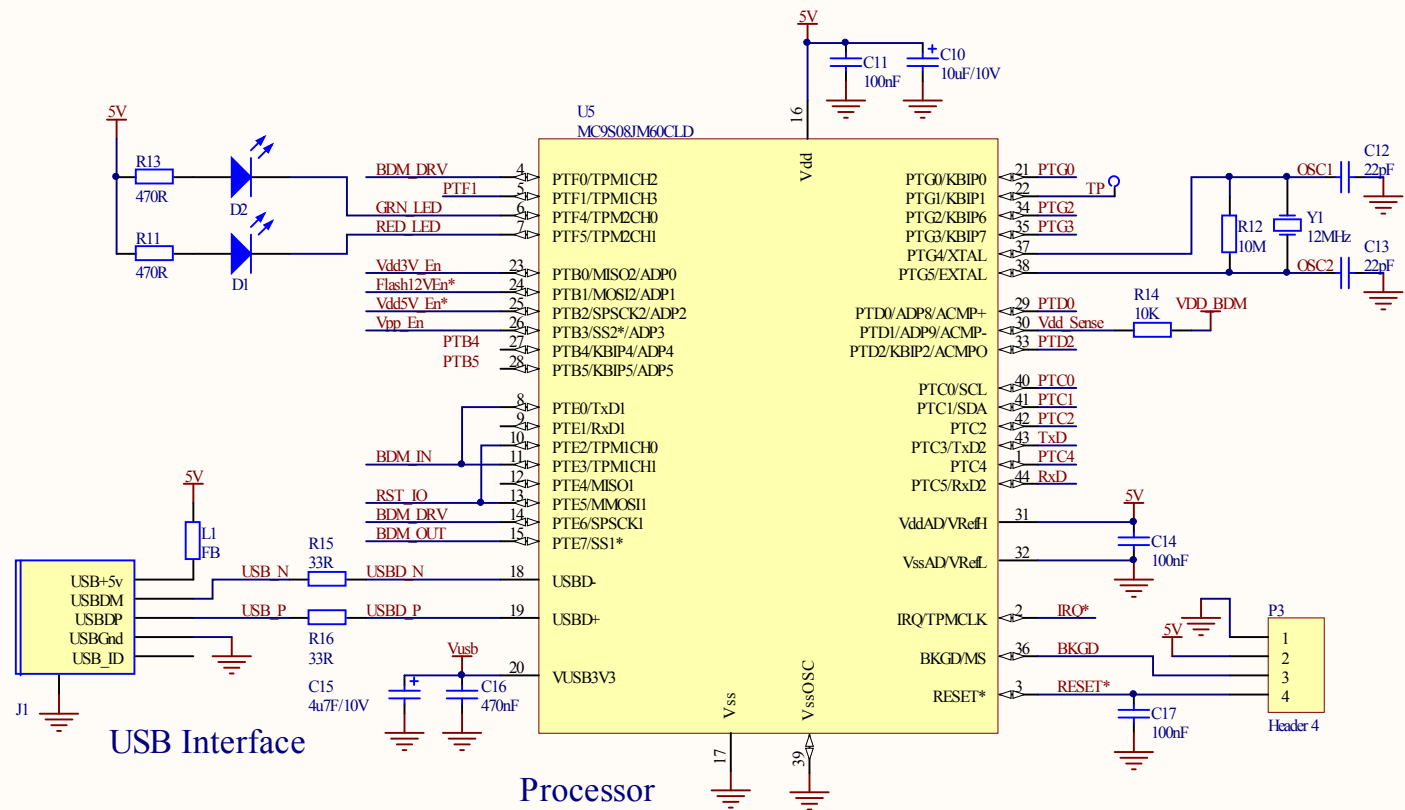




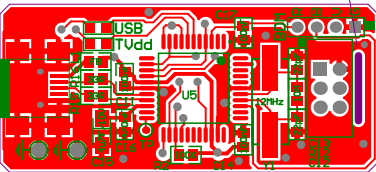
\* V1.6 Changed Q3 to BSS84 (need Vgs(br) >>12V). No PCB change  
\* Added Farnell and Digikey Part Numbers



Title		
USBDM_JMxxCLD		
Size	Number	Revision
A4	USBDM_JMxxCLD_p2.SchDoc	1.6
Date:	8/10/2009	Sheet 2 of 2
File:	C:\Peter\USBDM_JMxxCLD_p2.SchDoc	Drawn By:

USBDM\_JMxxCLD.PcbDoc

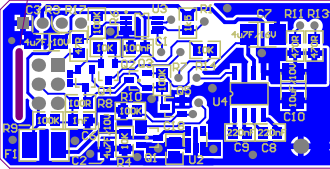
1mm slot



Board Outline this layer

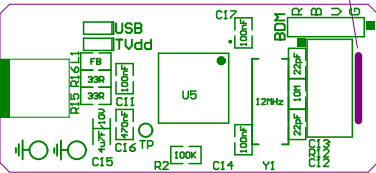
Board Outline this paper

USBDM\_JM v1.6



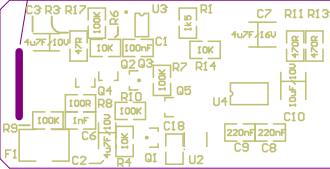
U2BDM\_1MxCJD.pcpDoc

tolz mmi



## Board Outline this layer

Board Outline this layer



USBDM\_JM v1.6

USBDM\_JMxCID.PcbDoc

1012 mmI

# Bill of Materials

Bill of Materials For Project [USBDM\_JMxxCLD.PRJPCB] (No PCB Document Selected)

Source Data From:	USBDM_JMxxCLD.PRJPCB
Project:	USBDM_JMxxCLD.PRJPCB
Variant:	None

Creation Date:	8/10/2009	5:47:54 PM
Print Date:	08-Oct-09	5:47:56 PM

Footprint	Comment	Farnell PN	Digikey	Designator	Description	Quantity
CCNP2012-0805	100nF	1186187	PCC1812CT-ND	C1, C11, C14, C17	Capacitor SMT	4
SMT_CaseA	4u7F/10V	9527737	495-2197-1-ND	C2, C3, C15	NP Ceramic MLC, Polarized Tantalum or NP Ceramic MLC	3
CCNP2012-0805	1nF	1362553	495-1939-1-ND	C6	Capacitor SMT	1
SMT_CaseB	4u7F/16V	1358506	495-2232-1-ND	C7	Polarized Tantalum or NP Ceramic MLC	1
CCNP2012-0805	220nF	8820139	PCC1832CT-ND	C8, C9	Capacitor	2
SMT_CaseB	10uF/10V	1288264	495-2236-1-ND	C10	Polarized Tantalum or NP Ceramic MLC	1
CCNP2012-0805	22pF	1414678	311-1299-1-ND	C12, C13	Capacitor SMT	2
CCNP2012-0805	470nF	1288279	587-1282-1-ND	C16	Capacitor	1
CCNP2012-0805	1uF(X7R)	9527710	587-1283-1-ND	C18	NP Ceramic MLC	1
LED-SMT-2	Red SMT LED	5790839	516-1429-1-ND, 751-1183-1-ND	D1	Medium Green SMT LED HSMx-C170	1
LED-SMT-2	Green SMT LED	5790852	516-1434-1-ND, 751-1166-1-ND	D2	Medium Red SMT LED HSMx-C170	1
CR4532-1812	MINISMDC014F	1345923	MINISMDC014FCT-ND	F1	Polyswitch Tyco MINISMDC014F	1
USB_Mini - SMT2	USB_MINI_CONNECTOR	1363522	A31727CT-ND	J1	USB Mini-B Connector Tyco/AMP 1734035	1
CR2012-0805	FB	1515717	490-1054-1-ND	L1	Ferrite Bead SMT	1
Transition 2x3		1188909		P1	2x3 Transition or Male Header	1
SOT23	IRLML6302	1463266	IRLML6302PBFCT-ND	Q1	HEXFET Power MOSFET	1
SOT23	BSS138	1467960	BSS138ZXCT-ND	Q2, Q4, Q5	N-Channel Enhancement Mode Vertical DMOS FET	3
SOT23	BSS84	1094997	BSS84ZXCT-ND	Q3	P-channel Enhancement Mode Vertical D-MOSFET	1
CR2012-0805	1k5	1632464	RHM1.50KCCT-ND	R1	Resistor SMT	1
CR2012-0805	100K	9332405	RHM100KCCT-ND	R2, R7, R9, R10, R17	Resistor, Resistor SMT	5
CR2012-0805	47R	1632490	RHM47.0CCT-ND	R3	Resistor SMT	1
CR2012-0805	10K	1638463	RHM10.0KCCT-ND	R4, R6, R14	Resistor, Resistor SMT	3
CR2012-0805	100R	1632456	RHM100CCT-ND	R8	Resistor	1
CR2012-0805	470R	1537443	RHM470CCT-ND	R11, R13	Resistor SMT	2
CR2012-0805	10M	9236392	RHM10MARCT-ND	R12	Resistor SMT	1
CR2012-0805	33R	9334343	RHM33.0CCT-ND	R15, R16	Resistor SMT	2
SO-G5/NS	LP2981AIM5-3.3/NOPB	1469139	LP2981AIM5-3.3CT-ND	U2	LDO Regulator (250mA, use ceramic caps)	1
TSSO3x5-G8/X.4	74LVC2G125DCTR	1470883	296-12164-1-ND	U3	Dual 3-state Buffer 1.65V-5.5V	1
SO-G8/E2.9	MAX662ACSA+	9724605	MAX662ACSA+-ND	U4	12V Charge Pump for Flash Memory	1
QFP80P1320X1320-44M	MC9S08JM60CLD	1562859	MC9S08JM60CLD-ND	U5	HCS08 CPU with USB, 44p QFP (0.8mm)	1
XTAL_SMT	12MHz	7939607	300-8548-1-ND, 535-9067-1-ND	Y1	Crystal (SMT HC49/US)	1

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Approved	Notes