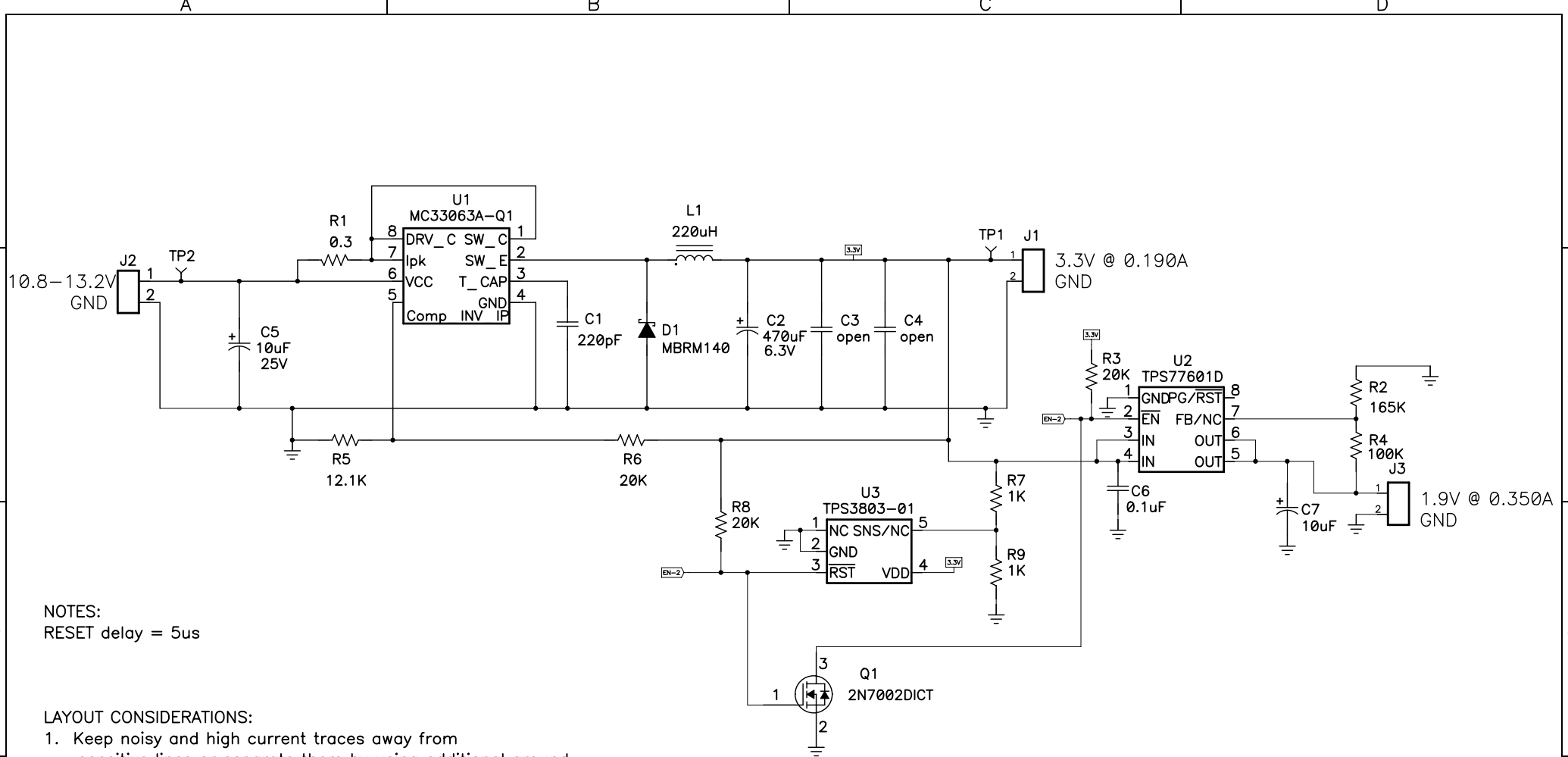




NOTES:
RESET delay = 5us

LAYOUT CONSIDERATIONS:

1. Keep noisy and high current traces away from sensitive lines or separate them by using additional ground traces in between, otherwise instability or oscillation can occur.
2. The resistive divider for fixing the output voltage should be placed as close as possible to the COMP pin.
3. All power components like the input and output capacitors, the inductor, the diode, and the device should be kept as close together as possible. The traces should be kept short, wide, and direct.

TEXAS INSTRUMENTS		
Title	MC33063 Power Supply	
Size B	Number PMP2954-1.2	Rev A
Date 10/1/2007	Drawn by S Zargar	
Filename PMP2954-1.2_REV_A.sch	Sheet 1	of 1

Filename: PMP2954-1_bom.xls

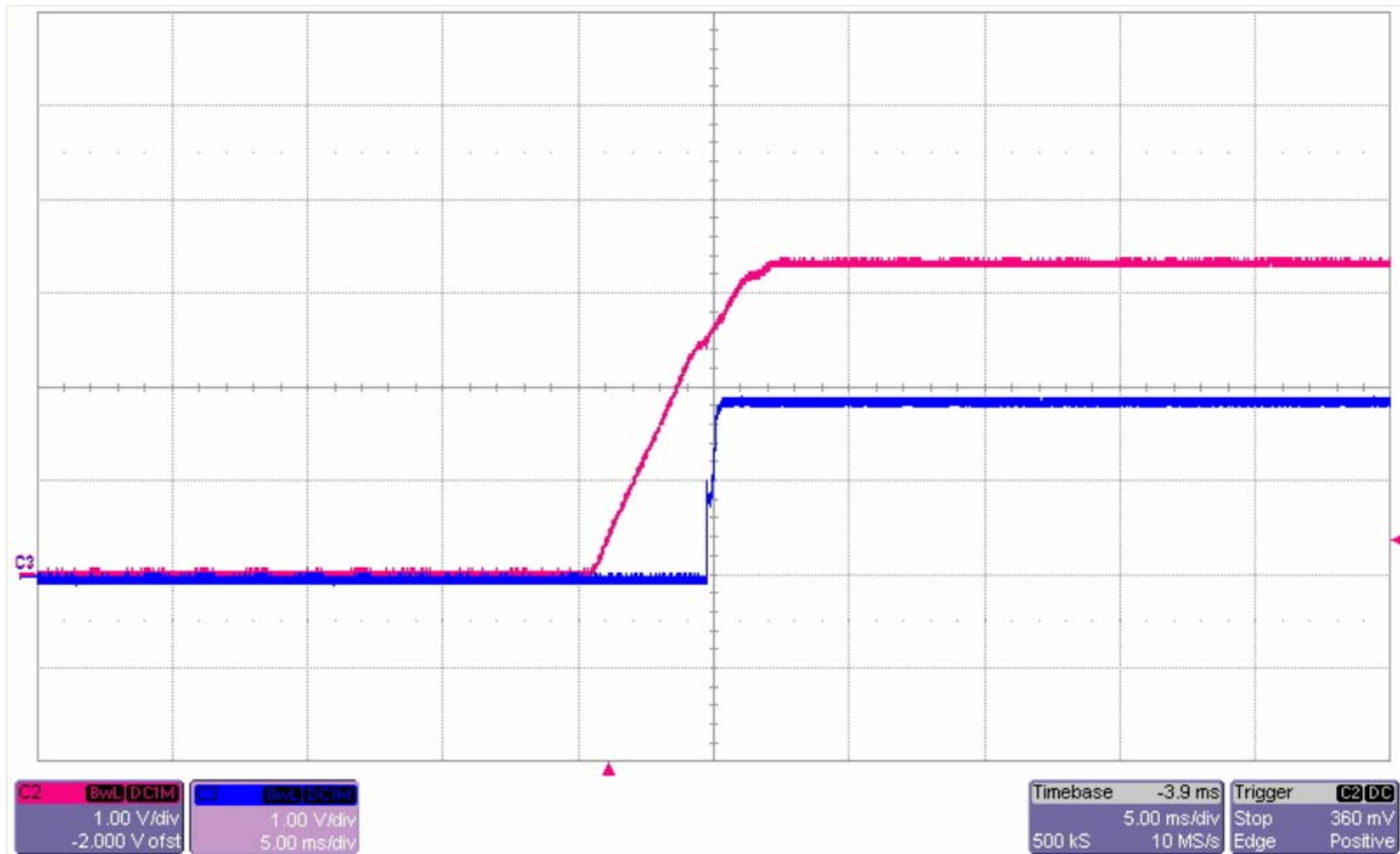
Date: 10/05/2007

PMP2954-1.2 BOM

COUNT	RefDes	Value	Description	Size	Part Number	MFR
1	C1	220pF	Capacitor, Ceramic, 220-pF, 50-V, X7R, 15%	0603	Std	Std
1	C2	470uF	Capacitor, Aluminum, 6.3V, ±20%	0.328 x 0.390 inch	EEVFK0J471F	Panasonic
2	C3, C4	open	Capacitor, Ceramic, open	1206	Std	Std
1	C5	10uF	Capacitor, Aluminum, 25V, ±20%	0.200 x 0.210 inch	EEVFK1E100B	Panasonic
1	C6	0.1uF	Capacitor, Ceramic, 0.1uF, 50V, X7R, 10%	0603	Std	Std
1	C7	10uF	Capacitor, Tantalum, 10V, 4milliohm, 20%	0.110 x 0.215 inch	TAJT106006	AVX
3	J1, J3, J2	ED1514	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
1	Q1	2N7002DICT	MOSFET, N-ch, 60-V, 115-mA, 1.2-Ohms	SOT23	2N7002DICT	Vishay-Liteon
1	R1	0.3	Resistor, Chip, 0.3 Ohms, 0.125W, 10%	805	Std	Std
1	R2	165K	Resistor, Chip, 165k, 1/16W, 1%	603	Std	Std
3	R3, R6, R8	20K	Resistor, Chip, 20K-Ohms, 1/16-W, 1%	603	Std	Std
1	R4	100K	Resistor, Chip, 100k, 1/16W, 1%	603	Std	Std
1	R5	12.1K	Resistor, Chip, 12.1K-Ohms, 1/16-W, 1%	603	Std	Std
2	R7, R9	1K	Resistor, Chip, 1K-Ohms, 1/16-W, 1%	603	Std	Std
2	TP1, TP2		Test Point, Black, 1mm	0.038	240-333	Farnell
1	U1	MC33063A-Q1	IC, 1.5 A Boost/Buck/Inverting SW Reg.	SO8	MC33063AQDRJR	Texas Instruments
1	U2	TPS77601D	IC, LDO Regulator With PG Output Fast-Transient-Response,	SO8	TPS77601D	Texas Instruments
1	U3	TPS3803-01	IC, Voltage Supervisor, xxVolts,	SOP-5 (DCK)	TPS3803-01	Texas Instruments

- Notes:
1. These assemblies are ESD sensitive, ESD precautions shall be observed.
Part Number TAJT106006
 2. These assemblies must be clean and
Use of no clean flux is not acceptable.
 3. These assemblies must comply with workmanship standards IPC-A-610 Class 2.
 4. Ref designators marked with an asterisk (***) cannot be substituted.
All other components can be substituted with equivalent MFG's components.

PMP2954-1.2_Rev_A Start-up Waveform



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