



△ Open
 △ Power dissipation limitations of D2, the SMC packaged SS32 diode, limit the ambient temperature of this design to 55°C. A diode in a larger package, like DDPAK, may be required.
 △ Bare board available with jumpers that allow independent enable or VOUT2 = 3.3V, VOUT3 = 2.5V and VOUT1 = 1.2V sequencing

Title		TPS75003	
Size	Number	PR389	Rev
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Date: 01/24/2005					
PR389 BOM					
COUNT	RefDes	DESCRIPTION	SIZE	Part Number	MFR
1	C1	Capacitor, POSCAP, 220-uF, 6.3-V, 40-milliohm, 20%	7343(D)	6TPB220ML	Sanyo
1	C10	Capacitor, Ceramic, 10-pF, 50-V, C0G, 5%	0603	C1608C0G1H100D	TDK
0	C11	Capacitor, Ceramic, xx-uF, xx-V	0603		
2	C12, C13	Capacitor, POSCAP, 220-uF, 4-V, 55-milliohm, 20%	7343(D)	4TPB220ML	Sanyo
1	C14	Capacitor, Ceramic, 10-uF, 10-V, X5R, 20%	0805	C2012X5R1A106MT	TDK
2	C2, C4	Capacitor, Ceramic, 0.1-uF, 16-V, X7R, 10%	0603	C1608X7R1C104K	TDK
2	C3, C5	Capacitor, Ceramic, 1200-pF, 50-V, X7R, 10%	0603	C1608X7R1H122K	TDK
3	C6, C15, C16	Capacitor, Ceramic, 1.0-uF, 6.3-V, X5R, 10%	0603	C1608X5R0J105K	TDK
1	C7	Capacitor, Ceramic, 0.01-uF, 50-V, X7R, 10%	0603	C1608X7R1H103K	TDK
2	C8, C9	Capacitor, Ceramic, 22-uF, 6.3-V, X5R, 20%	0805	C2012X5R0J226MT	TDK
2	D1, D2	Diode, Schottky, 3.0-A, 20-V	SMC	SS32	Vishay
6	J1 - J6	Terminal Block, 2-pin, 6-A, 3.5mm	0.27 x 0.25	ED1514	OST
2	J7, J8	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 x 2	PTC36SAAN	Sullins
2	JP1, JP3	Header, 3-pin, 100mil spacing, (36-pin strip)	0.100 x 3	PTC36SAAN	Sullins
1	JP2	Header, 2-pin, 100mil spacing, (36-pin strip)	0.100 x 2	PTC36SAAN	Sullins
1	L1	Inductor, SMT, 4.7-uH, 4.6-A, 2.9-milliohm	0.327 X 0.327	CDRH8D38-4R7	Sumida
1	L2	Inductor, SMT, 15-uH, 4.5-A, 27-milliohm	0.472 sq	CDRH127-150	Sumida
2	Q1, Q2	MOSFET, P-ch, -12V,-7.6-A, 31-milliohm	1206-8	Si5475DC	Siliconix
3	R1, R2, R3	Resistor, Chip, 100k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R10	Resistor, Chip, 0-Ohms, 1/16W, 5%	0603	Std	Std
0	R11	Resistor, Chip, xx-Ohms, 1/16-W, 1%	0603		
2	R4, R5	Resistor, Chip, 0.020-Ohms, ¼ W, 1%	1210	Std	Std
2	R6, R8	Resistor, Chip, 619k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R7	Resistor, Chip, 154k-Ohms, 1/16-W, 1%	0603	Std	Std
1	R9	Resistor, Chip, 365k-Ohms, 1/16-W, 1%	0603	Std	Std
1	U1	IC, Triple Channel DC/DC Converter	QFN-20	TPS75003RGY	TI
1	--	PCB, 2.7 In x 2.2 In x 0.062 In		PR389	Any
3	--	Shunt, 100-mil, Black	0.100	929950-00	3M
Notes:					
1. These assemblies are ESD sensitive, ESD precautions shall be observed.					
2. These assemblies must be clean and free from flux and all contaminants.					
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.					

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