

# UM heated bed MosFET relay hack - BOM

Version: 2.0

pos.	qty.	designator	description	manufacturer	manufacturer #	supplier	supplier #
01	2	D1, D2	Diode TVS, unidirectional, 24V	Littelfuse	SA24A	Mouser	576-SA24A
02	1	H1	LED 5mm round, yellow	Lite-On	LTL-307Y	Mouser	859-LTL-307Y
03	1	Q1	MosFET N-CH, TO-220 high current	International Rectifier	IRLB3813PBF	Mouser	942-IRLB3813PBF
04	1	R1	Resistor 2.2k Ohms, 1%, 1/4 W axial	KOA Speer	MF1/4DC2201F	Mouser	660-MF1/4DC2201F
05	2	R2, R3	Resistor 10k Ohms, 1%, 1/4 W axial	KOA Speer	MF1/4DC1002F	Mouser	660-MF1/4DC1002F
06	1	X1	Screw type terminal connector, 2P, 2.54mm	TE Connectivity	282834-2	Mouser	571-282834-2
07	1	X2	Screw type terminal connector, 2P, 5mm	TE Connectivity	282856-2	Mouser	571-282856-2

**Alternative MosFET. Cheaper, and a little less efficient, but still more than sufficient. Use the recommended part in the list above for best performance**

03	1	Q1 (alt)	MosFET N-CH, TO-220 high current	International Rectifier	IRLB8743PBF	Mouser	942-IRLB8743PBF
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## Power supply recommendations

Note: You get free shipping from mouser for orders above 80\$. Check your shopping cart for correct value and dependence of shipping country

description	manufacturer	manufacturer #	supplier	supplier #	
300W, 24V power supply, "first choice"	Mean Well	HRPG-300-24	Mouser	709-HRPG-300-24	for 200W heated beds
300W, 12V power supply, "first choice"	Mean Well	HRPG-300-12	Mouser	709-HRPG-300-12	for 200W heated beds
150W, 24V power supply, "first choice"	Mean Well	HRPG-150-24	Mouser	709-HRPG-150-24	for 100W heated beds
150W, 12V power supply, "first choice"	Mean Well	HRPG-150-12	Mouser	709-HRPG-150-12	for 100W heated beds
350W, 24V power supply, "second choice"	Mean Well	LRS-350-24	Mouser	709-LRS350-24	for 200W heated beds
350W, 12V power supply, "second choice"	Mean Well	LRS-350-12	Mouser	709-LRS350-12	for 200W heated beds
150W, 24V power supply, "second choice"	Mean Well	RSP-150-24	Mouser	709-RSP150-24	for 100W heated beds
150W, 12V power supply, "second choice"	Mean Well	RSP-150-12	Mouser	709-RSP150-12	for 100W heated beds